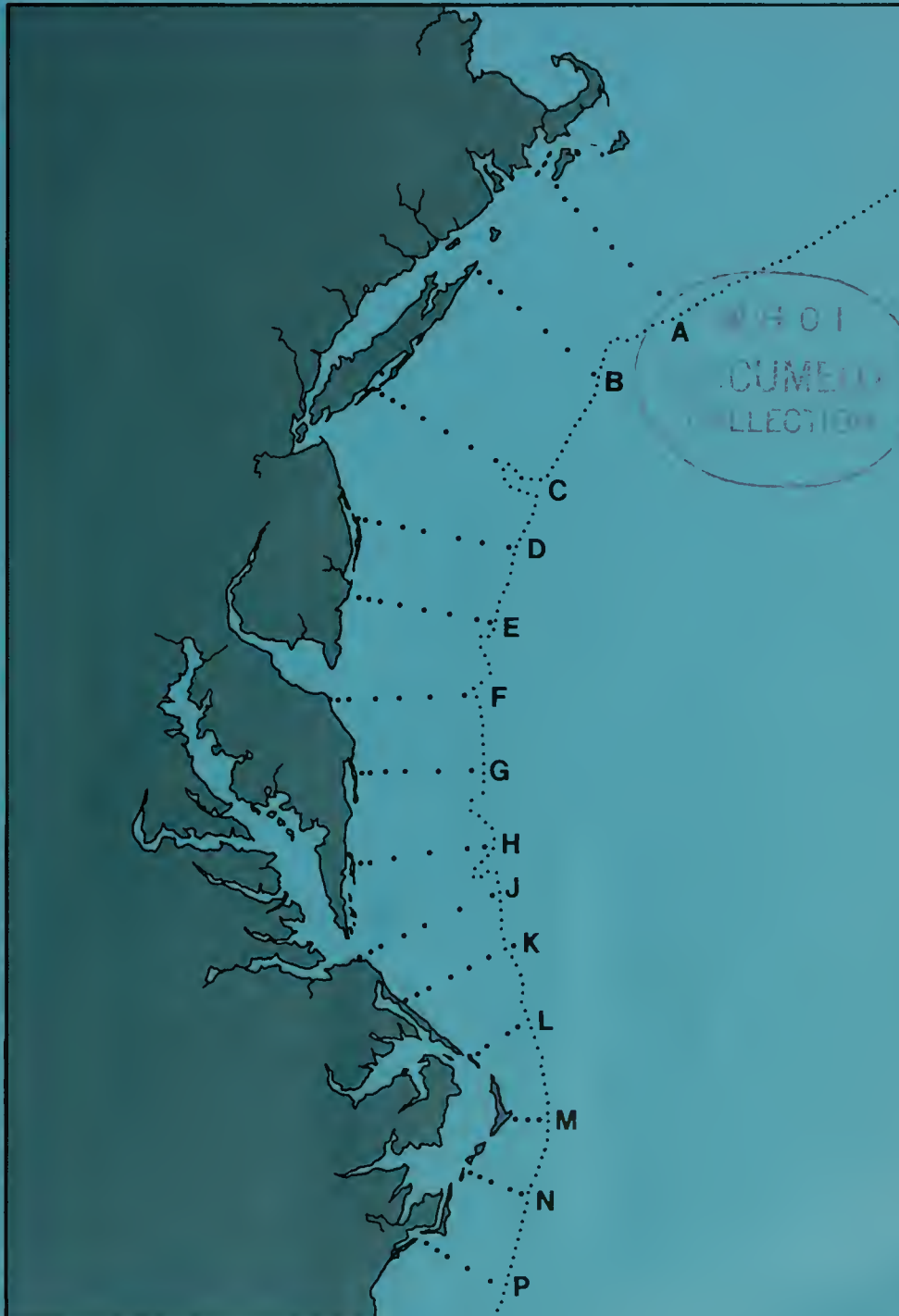


Ichthyoplankton from the RV *Dolphin* Survey of
Continental Shelf Waters between Martha's Vineyard, Massachusetts
and Cape Lookout, North Carolina, 1965-66



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CONTINENTAL SHELF WATERS BETWEEN MARTHA'S VINEYARD, MASSACHUSETTS
AND CAPE LOOKOUT, NORTH CAROLINA, 1965-66

by

P. L. Berrien, M. P. Fahay, A. W. Kendall, Jr., and W. G. Smith

Sandy Hook Laboratory
Northeast Fisheries Center
National Marine Fisheries Service
National Oceanic and Atmospheric Administration
U. S. Department of Commerce

Highlands, N. J.

Technical Series Report No. 15

March 1978

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ABSTRACT

Data are tabulated on ichthyoplankton and concomitant physical conditions collected during a survey of Atlantic continental shelf waters. Sampling information and laboratory procedures are described. Numbers and lengths of 87 species of larval fishes are tabulated by station; egg catches for 9 of these are included. Additionally, the presence of 79 categories of larvae, presently identified only to genus or a higher taxon, is noted by station.

INTRODUCTION

Between December 1965 and December 1966 Sandy Hook Laboratory conducted an ichthyoplankton survey of continental shelf waters from Martha's Vineyard, Massachusetts to Cape Lookout, North Carolina. This study was designed to determine where and when marine fishes spawn, describe distributions and dispersal patterns of their eggs and larvae, and was intended to eventually help us evaluate the extent of estuarine dependence of their young.

This report presents data on young stages of 166 taxa and includes descriptions of sampling design and physical conditions associated with the plankton collections. Although the identifications of some taxa are not to the specific level, we present these data in their present form because: 1) the areal and seasonal extent of our survey is the most comprehensive undertaken in the Middle Atlantic Bight; 2) we have received many requests for portions of the data; 3) the small numbers of some species do not warrant publishing individually; and 4) there is value in publishing the data by station as well as by species.

Some data have already been published. Field and laboratory procedures, physical conditions, zooplankton volumes, and a list of juvenile and adult fishes caught in a mid-water trawl are included in Clark et al. (1969). Reports on individual species taken from plankton samples have been published as follows: Centropristis striata (Kendall 1972), Ammodytes sp. (Richards and Kendall 1973), Paralichthys dentatus (Smith 1973), Merluccius bilinearis (Fahay 1974), Brevoortia tyrannus (Kendall and Reintjes 1975), and Pleuronectiformes (Smith et al. 1975). Descriptions of young stages,

based on survey specimens include Paralichthys dentatus (Smith and Fahay 1970) and Scomber scombrus (Berrien 1975). Similar papers on other species are in preparation or planned.

METHODS

Sampling procedures described by Clark et al. 1969, Smith 1973, and Fahay 1974 are only summarized here. On each cruise we sampled at 92 stations situated on 14 transects (Figure 1). Stations were shoreward as close to the beach as the vessel could operate, and seaward to near the continental shelf edge. We completed eight cruises from December 1965 to December 1966. In addition, on an incomplete cruise in September 1966 (cruise D-66-11) we sampled four transects between Martha's Vineyard, Massachusetts and Barnegat Inlet, New Jersey.

Two Gulf V samplers (Arnold 1959) with 0.52-mm mesh netting were usually towed simultaneously at each station. All step oblique tows were 30 min at a speed of 9.3 km/h (5 kt). In a standard tow the nets were lowered in six 3-m depth increments, or steps, and towed for 5 min at each depth. One Gulf V sampled from 0 to 15 m, and the other from 18 to 33 m. Alterations to this standard towing procedure, necessitated by varying water depth are shown in Figure 2. Surface temperature was measured with a stem thermometer. Mechanical bathythermographs provided temperature data with water depth. Salinity was measured with an in situ induction salinometer at 5-m depth increments to a maximum of 50 m.

All fish eggs and larvae were removed by successively sorting small portions of each plankton sample under dissecting microscopes as described in Clark et al. (1969). The responsibility for identification of eggs

and larvae was divided among the four authors as follows:

Michael P. Fahay - elopiform and anguilliform leptocephali, Gadidae,
and Merlucciidae.

W. G. Smith - Pleuronectiformes.

Arthur W. Kendall, Jr. - Serranidae, Labridae, Clupeiformes, Myctophidae,
Ammodytes, Pomatomus, and Peprilus.

Peter Berrien - Sciaenidae and Scombridae.

Kenneth Able, of McGill University, identified the Liparidae.

Remaining fish larvae were identified, largely to the familial level, by
Peter Berrien, with assistance from the other biologists.

The generic and specific names assigned to specimens conform to Bailey
et al. (1970), or to current usage among workers of appropriate purview.
Nomenclature and order of listing (Tables 1 and 3) among higher taxa
conforms to Greenwood et al. (1966), except for placing Scorpaeniformes
and Dactylopteriformes after Perciformes as in Bailey et al. (1970).

In order to express the density of eggs and larvae in a standard
manner (as number per 10m^2 sea surface) and because of the variation in
tow schemes between stations, the following procedures were used. All
deep-net catches (18-33 m) were reduced by 10% of the shallow-net catch
(0-15 m) to compensate for contamination in the upper 15 m of water.
Because flowmeters were not used, a theoretical value of 495m^3 of water
filtered by each sampler was used in calculations. This value was based
on a reported 85% filtration efficiency for unencased conical nets of the
dimensions and porosity used (Tranter and Smith 1968). Therefore, the

water volume filtered = $0.85 (\pi r^2 h)$; $r = 0.2\text{m}$, $h = 4630\text{m}$. Catch per square meter of ocean surface area (subsequently converted to catch per 10m^2 in this case) was calculated by dividing the standardized number caught by the ocean area corresponding to the volume filtered, after equalizing the sampling effort at each depth to the standard of 5 min. Standardization of effort, catch, and volume filtered is illustrated in Figure 2.

RESULTS

Table 1 indicates how many larvae of each analyzed species were taken during each cruise, the presence of unanalyzed taxa, and the number of occurrences for all larval taxa and nine egg species. Table 2 is a summary of data associated with each plankton collection. The following comments are included to clarify certain entries in the table.

- 1) Light condition - "dawn" or "dusk" was assigned if sunrise or sunset occurred during any part of the 30-min tow.
- 2) The mean temperatures and mean salinities were calculated from measurements at 5-m depth intervals. Measurements within the plankton sampling depths were multiplied by the meters of depth they represented, the products were totaled, and the sum was divided by the number of meters sampled by the Gulf V net.
- 3) Values for temperature or salinity ranges were interpolated as needed from the measurements at 5-m intervals.
- 4) Water depth was calculated by averaging the fathometer depth at the start and end of the plankton tow.

5) The thermocline was designated as *strong* (if there was a change in temperature of at least 1°C per meter of depth), *weak* (a change of less than 1°C per meter, but stratification was present), *gradual* (slight, but constant change in temperature with depth, no distinct thermocline or stratification), or *none* (little or no temperature change with depth, isothermal).

Table 3 lists the fish eggs and larvae identified. Transects are listed from north to south (alphabetically) and stations on each transect from inshore to offshore (numerically). Fishes are listed in two categories: "Species Analyzed" and "Additional Larvae Caught". In the first category, any number including zero in the "No. Eggs" column indicates that we looked for eggs of a given species. Lack of a number in this column indicates that we did not search for eggs of this species, and does not necessarily mean they were not present in the samples. The second category refers to those fishes present in the samples which were not counted or measured. These were usually identified to family or a higher taxon.

In a few cases where the numbers of specimens caught, shown in Table 3, do not agree with results published elsewhere, the differences are due to adjustments to raw data in correcting for contamination of the deep net in the shallow zone and in standardizing sampling effort, or recent finds of specimens that initially had been incorrectly identified.

ACKNOWLEDGMENTS

We thank Charles Morrison, John LeBaron, and Gregory Howard for carrying out the computer work; and the many biological aids and technicians who performed the numerous sorting, counting, measuring, and tabulating tasks.

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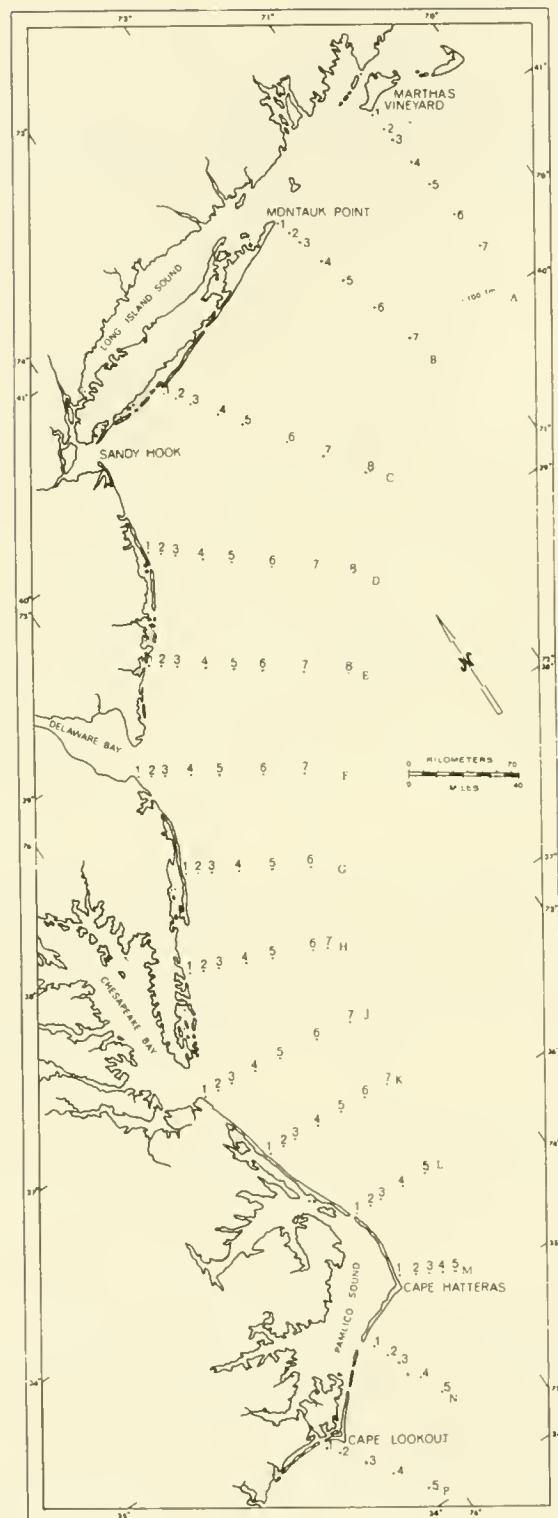


Figure 1. Locations of transects and collecting stations for the ichthyoplankton survey.

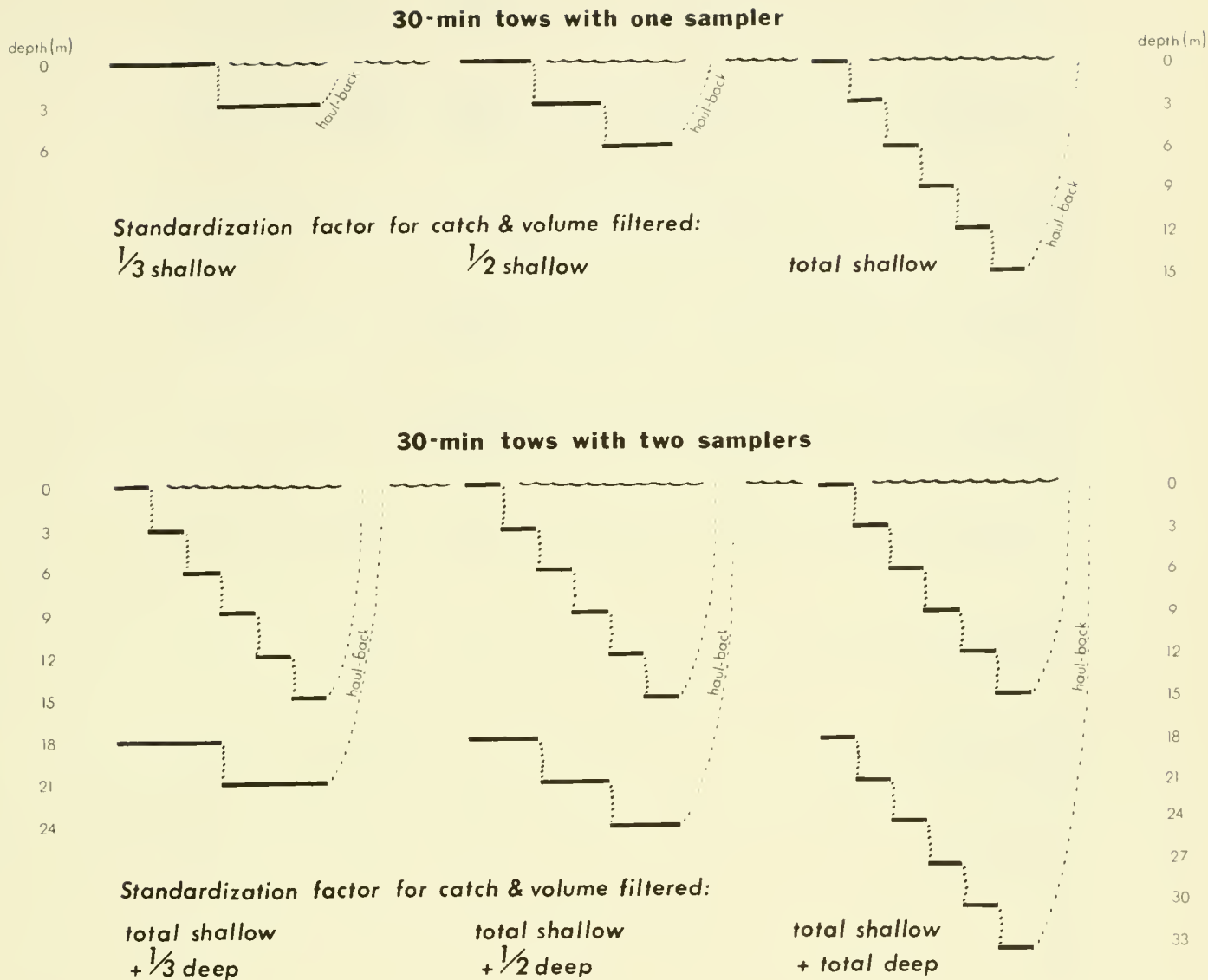


Figure 2. Variations in tow profile due to varying water depth and procedures for standardization of effort between stations. Ocean surface area corresponding to each standardized tow was determined by dividing the standardized volume filtered by the maximum depth sampled. Resultant catch densities were converted to catch per 10m^2 for Table 3.

TABLE 1. List of taxa identified from survey cruises. The number of larvae caught, if analyzed, or the presence of larvae not analyzed (+) is indicated before the slash; after the slash the number of occurrences given includes all larvae and nine species of eggs marked (*).

T A X O N		65-4 Dec	66-1 Jan-Feb	66-3 Apr	66-5 May	66-7 June	66-10 Aug	66-11 Sept	66-12 Sept-Oct	66-14 Nov-Dec
Elopiiformes										
Elopidae										
Elops saurus		4/3			6/1	3/2	2/1		1/1	7/4
<u>Megalops atlantica</u>										
Albulidae										
<u>Albula vulpes</u>						3/2				
Anguilliformes										
Anguillidae										
<u>Anguilla rostrata</u>		+2	+15	+3	+3	+1	+4		+3	
Moringuidae										
spaghetti eels			+1						+1	+1
Muraenidae										
morays		+1	+2	+1	+4	+5	+5		+7	+2
Congridae										
conger eels			+1		+1	+2			+2	+2
snake eels		+5	+3		+5	2+/3	+17	+1	+5	1+3
key worm eel		1/1			1/1					
finless eel						1/1			1/1	
shorttail snake eel			1/1			1/1	3/2		2/1	40/8
sailfin eel							1/1			
goldspotted eel			1/1							
snake eel						1/1			4/3	
speckled worm eel									2/1	42/9
shrimp eel		2/1		1/1	2/2	12/4	4/4		15/7	
blackpored eel		2/2	1/1							1/1
palespotted eel		8/3	3/3	2/1	1/1	1/1	1/1		2/1	7/6
snake eel					1/1					1/1
<u>Pisodonophis cruentifer</u>							23+/11	6+/5		
Nettastomatidae			+3				+2		+1	
Serrivomeridae									+1	

TABLE 1. (continued)

T A X O N		65-4 Dec	66-1 Jan-Feb	66-3 Apr	66-5 May	66-7 June	66-10 Aug	66-11 Sept	66-12 Sept-Oct	66-14 Nov-Dec
Clupeiformes										
Clupeidae										
	<u>Brevoortia tyrannus</u>	914/32	305/23	34/8	3/3	14/3	8/5		5420/36	308/34
	<u>Clupea h. harengus</u>	3/3	43/13	66/9	4/3					610/22
	<u>Etrumeus sadina</u>	22/4	22/3	134/4	6/4					
	<u>Sardinella anchovia</u>				32/6	15/6	64/6		6/1	
Engraulidae										
	<u>Anchoa hepsetus</u>	1/1		30/6	484/11	57/8	677/8		1682/27	63/13
	<u>Anchoa mitchilli</u>	65/5	29/4			5620/16	46/4		35/4	13/4
	<u>Engraulis eurystole</u>	46/13	8/5	32/4	61/5	362/11	3894/50	216/16	453/33	171/11
Salmoniformes										
Gonostomatidae										
	<u>Cyclothone sp.</u>	+1		+8	+4	+8	+8		+10	+4
	<u>Maurollicus sp.</u>	+3	+2	+1	+1	+2	+1		+1	
	<u>Vinciguerrixia sp.</u>	+3	+2	+3		+2				+4
Stomiidae										
		+12	+3	+8	+11	+13	+18	+2	+16	+10
Synodontidae										
		+1		+2		+1				+2
Chlorophthalmidae										
		+6	+4	+4	+4	+6	+3	+1	+5	+5
Paralepididae										
	<u>Sudis sp.</u>	2+2	6+2	14/4	26+10	53+15	2+4		4/2	+2
Myctophidae										
	<u>Benthoosema sp.</u>				5/4		2/2			
	<u>Benthoosema glaciale</u>			2/1	9/3	151/16			5/3	1/1
	<u>Benthoosema suborbitale</u>	4/1	2/2	1/1		2/1				7/3
	<u>Ceratoscopelus sp.</u>				14/3					
	<u>Ceratoscopelus maderensis</u>	5/4	6/3	119/6	23/7	79/11	276/11	10/2	36/11	68/14
	<u>Ceratoscopelus warmingi</u>	61/5	2/2	199/6	39/4	52/6	3/3		8/6	12/4
	<u>Diaphus sp.</u>	14/4	9/6	39/4	45/4	40/6	7/4	6/2	34/10	33/5

TABLE 1. (continued)

[illegible]

TABLE 1. (continued)

T A X O N		65-4 Dec	66-1 Jan-Feb	66-3 Apr	66-5 May	66-7 June	66-10 Aug	66-11 Sept	66-12 Sept-Oct	66-14 Nov-Dec
<u>Pollachius virens</u> *	pollock		139/2	11/8	6/4					31/10
<u>Urophycis</u> sp.	unident. hake	739/42	80/9	10/3	15/6	4/2	252/5	15110/26	11405/63	1187/60
<u>Urophycis</u> chuss	red hake				1/1	54/22	3425/44	1167/8		
<u>Urophycis floridanus</u>	southern hake	3/1								
<u>Urophycis regius</u>	spotted hake		11/4							
Merlucciidae										
<u>Merluccius bilinearis</u> *	silver hake	209/26			2/3	585/23	2989/34	3877/28	3187/42	407/38
Ophidiidae	cusk eels or brotulas	+8	+9	+5	+11	+10	+52	+15	+65	+11
Carapidae	pearlfishes	+3	+4		+2	+1	+7		+6	
Atheriniformes										
Exocoetidae	flyingfishes or halfbeaks			+1	+1	+1				
Atherinidae	silversides				+1	+2	+1		+2	
Beryciformes										
Holocentridae	squirrelfishes				+4	+2				
Zeiformes										
Caproidae	boarfishes			+1	+1	+2	+1		+1	
Gasterosteiformes										
Fistulariidae	cornetfishes	+1			+1	+2			+2	+1
Syngnathidae	pipefishes or seahorses	+9	+2	+4	+5	+9	+9	+1	+10	+5
Perciformes										
Serranidae	sea basses	+9	+7	+8	+9	+8	+13		+19	+8
<u>Centropristis striata</u>	black sea bass					3/2	123/15	1/1	17/10	4/3
<u>Hemanthias vivanus</u>	red barbier	11/5	11/3	18/6	12/4	22/5	2/2		37/8	21/4
<u>Plectranthias garrupellus</u>		1/1	3/2	2/1						
<u>Serraniculus pumilio</u>	pygmy sea bass						2/1			

TABLE 1. (continued)

T A X O N									
	65-4 Dec	66-1 Jan-Feb	66-3 Apr	66-5 May	66-7 June	66-10 Aug	66-11 Sept	66-12 Sept-Oct	66-14 Nov-Dec
Grammistidae	+/1	+/1	+/2	+/2		+/6		+/1	+/1
Priacanthidae				+/2		+/2		+/2	+/1
Apogonidae	+/1	+/1	+/1	+/6	+/6	+/2		+/6	+/4
Branchiostegidae <u>Malacanthus</u> sp.				+/2	+/1	+/2		+/1	
Pomatomidae <u>Pomatomus saltatrix</u>		1/1		25/5		1621/25	2/2	2/1	
Carangidae	+/4	+/4	+/5	+/9	+/11	+/15	+/1	+/10	+/8
Coryphaenidae	+/1		+/2	+/6	+/3	+/1		+/1	
Sparidae	+/14	+/8	+/7	+/14	+/2	+/3		+/2	+/10
Sciaenidae Cynoscion sp. <u>Larimus fasciatus</u> <u>Leiostomus xanthurus</u> <u>Menticirrhus</u> sp. <u>Micropogon undulatus</u>	1749/18 603/21	406/14 33/9	1/1 24/6 1/1 2/2	3/2 7/4 3/2 4/1	93/11 5/4 58/12	+/8 3/2 90/14 48/15 265/18		21/9 441/20	55/8 1025/19
Chaetodontidae	+/3		+/1	+/2		+/1		+/1	+/1
Pomacentridae			+/3	+/3	+/3	+/2		+/3	+/2
Labridae or Scaridae <u>Tautoga onitis</u> <u>Tautoglabrus adspersus</u>	+/7	+/4	+/5	+/11 81/9	+/9 152/20 3467/22	+/19 67/5 693/32	+/3 5/2 16/7	+/11	+/7
Mugilidae	+/6	+/3	+/1	+/8	+/4			+/3	+/5

TABLE 1. (continued)

T A X O N	65-4										66-14		
	Dec	Jan-Feb	Apr	May	June	Aug	Sept	Sept-Oct	Nov-Dec				
Sphyraenidae		barracudas											
Uranoscopidae		stargazers											
Blenniidae	+1	+1	+34	+26	+14	+11		+13	+4				
Stichaeidae		pricklebacks		+2									
Pholidae		gunnels	+15										
Ammodytidae		unident. sand lance											
<u>Ammodytes</u> sp.		1499/54	507/51	44/16									
Callionymidae	+11	+3	+1	+6	+6	+16	+1	+11	+11				
Gobiidae	+19	+11	+9	+10	+14	+21	+2	+23	+35				
Acanthuridae	+5		+1	+6	+2	+2		+1	+2				
Gempylidae	+4	+2	+1	+2	+2			+1	+1				
Trichiuridae	+1	+1		+4	+1	+4		+5	+2				
Scombridae													
<u>Acanthocybium</u> <u>solanderi</u>					4/1								
<u>Axius</u> sp.				359/6	821/7	1343/43	2/2	9/6					
<u>Euthynnus</u> <u>alletteratus</u>				12/4	4/2	90/12		5/3					
<u>Katsuwonus</u> <u>pelamis</u>			3/2	10/2	10/2	3/2							
<u>Sarda</u> <u>sarda</u> *				1/6	9/9	232/20							
<u>Scomber</u> <u>japonicus</u> *				2/1									
<u>Scomber</u> <u>scombrus</u> *				1490/64	3293/37	76/5							
<u>Scomberomorus</u> <u>cavalla</u>				28/3	2/1	18/5		37/9					
<u>Thunnus</u> <u>albacares</u>				1/1	1/1								
<u>Thunnus</u> <u>albacares</u> or <u>alalunga</u>				2/2		2/1							
<u>Thunnus</u> <u>obesus</u> or <u>atlanticus</u>				1/1	2/2	2/1		1/1					
<u>Thunnus</u> <u>thynnus</u>			1/1		2/2								
		bluefin tuna											

TABLE 1. (continued)

T A X O N		65-4 Dec	66-1 Jan-Feb	66-3 Apr	66-5 May	66-7 June	66-10 Aug	66-11 Sept	66-12 Sept-Oct	66-14 Nov-Dec
Istiophoridae	billfishes				+1	+2				
Stromateidae	butterfishes				+9	+10	+26	+10	+4	+2
<u>Peprilus triacanthus</u>	butterfish	+5 21/7	10/2	+3 108/8	284/15	357/20	2545/66	116/19	151/27	20/9
Scorpaeniformes	scorpionfishes	+6	+4	+8	+9	+6	+11		+5	+7
Scorpaenidae										
Triglidae										
<u>Prionotus carolinus</u>	northern searobin	+5 92/9	+2 8/3	+5 66/7	+8 15/5	+8 435/20	+16 738/36	215/10	+22 8001/62	+7 241/26
<u>Prionotus evolans</u>	striped searobin						16/6		2/2	
Cottidae	sculpins		+17	+20	+7					
Cyclopteridae										
<u>Liparis inquilinus</u> or atlanticus	seasnail				1/1	28/1				
<u>Liparis atlanticus</u>	inquiline seasnail			2/1	393/22	35/4				
<u>Liparis inquilinus</u>						20/8				
Dactylopteriformes										
Dactylopteridae										
<u>Dactylopterus volitans</u>	flying gurnard				+2	+1	+1			
Pleuronectiformes										
Bothidae										
<u>Bothus ocellatus</u>	eyed flounder	123/12	16/5	36/6	354/6	264/10	56/11	1/1	279/16	362/8
<u>Citharichthys arctifrons</u>	Gulf Stream flounder	34/12		33/8	10/7	24/3	4266/44	2849/26	3675/44	273/30
<u>Cyclopsetta fimbriata</u>	spotfin flounder	1/1		1/1	11/4	8/3	5/1		22/9	4/3
<u>Etropus microstomus</u>	smallmouth flounder	467/12	68/7	12/5	23/6	185/22	1647/40	14/3	631/42	472/33
<u>Monolene sessilicauda</u>	deepwater flounder			1/1		3/1	1/1	1/1		
<u>Paralichthys dentatus</u> *	summer flounder	845/63	55/18	40/8	7/3			18/6	1424/42	520/73
<u>Hippoglossina oblongus</u>	fourspot flounder				1/1	99/16	1541/51	532/25	552/35	
<u>Scophthalmus aquosus</u>	windowpane	2540/58	7/5	17/8	1270/33	123/17	128/12	75/17	2058/39	984/47
<u>Syacium papillosum</u>	dusky flounder	6/4		4/2	363/9	273/9	262/15		499/18	73/8

TABLE 1. (continued)

T A X O N		65-4 Dec	66-1 Jan-Feb	66-3 Apr	66-5 May	66-7 June	66-10 Aug	66-11 Sept	66-12 Sept-Oct	66-14 Nov-Dec
Pleuronectidae										
<u>Glyptocephalus cynoglossus</u>	witch flounder			90/26	568/38	575/34	127/26	8/6	4/3	
<u>Hippoglossoides platessoides</u>	American plaice				101/10					
<u>Limanda ferruginea</u>	yellowtail flounder	1/1		2549/45	10691/67	11088/50	217/25	4/3		
<u>Pseudopleuronectes americanus</u>	winter flounder			1837/30	736/21	360/7				
Cynoglossidae										
<u>Symphurus</u> sp.	tonguefishes	29/9	8/2	26/4	295/10	63/10	357/33		124/20	100/10
Tetraodontiformes										
Balistidae	filefishes and triggerfishes	+/1	+/2		+/11	+/16	+/15		+/10	+/1
Tetraodontidae	puffers	+/2	+/1	+/2	+/5	+/13	+/6	+/1	+/7	+/2
Unidentified		+/27	+/17	+/43	+/56	+/46	+/65	+/20	+/61	+/21

Table 2. Physical conditions and sampling data associated with plankton collections.

CRUISE D6504 STA.	TOW DEPTH (M)	DATE YY MM	TIME HH:MM	LIGHT COND.	WATER DEPTH (M)	***** RANGE	TEMPERATURE MEAN SURF.	(C) SURF.	***** BOT.	THERMOCLINE DEGREE	DEPTH (M)	**** RANGE	SALINITY (0/000) MEAN	**** SURF.	POSITION LAT. LONG.	** SUN ** RISE SET
C 1	0-6	3 12	2243	NIGHT	19	8.1-8.1	8.1	8.1	8.0	NONE	-	30.1-32.0	30.7	32.0	4035 73 17	0659 1626
C 2	0-15	3 12	2353	NIGHT	27	8.2-8.2	8.2	8.2	8.3	NONE	-	30.0-30.2	30.1	30.0	4031 73 14	0659 1626
C 3	0-15	4 12	0137	NIGHT	33	8.0-8.2	8.1	8.0	8.0	NONE	-	30.2-30.5	30.4	30.0	4027 73 10	0659 1627
C 4	0-15	4 12	0312	NIGHT	38	8.4-8.4	8.4	8.4	8.4	NONE	-	29.6-29.2	29.1	29.2	4019 73 02	0702 1630
C 5	18-33	4 12	0312	NIGHT	38	8.4-8.4	8.4	8.4	8.4	NONE	-	29.7-30.0	29.8	29.2	4019 73 02	0702 1630
C 5	0-15	4 12	0449	NIGHT	48	10.9-11.0	10.9	9.5	9.6	NONE	-	29.6-30.0	29.7	30.0	4010 72 55	0657 1626
C 5	18-33	4 12	0449	NIGHT	48	10.7-11.0	10.9	9.5	9.6	NONE	-	29.7-30.0	29.8	30.0	4010 72 55	0657 1626
C 6	0-15	4 12	0702	DAY	56	10.0-10.0	10.0	10.0	10.0	NONE	-	30.0-30.4	30.2	30.4	3958 72 44	0656 1626
C 6	18-33	4 12	0702	DAY	56	10.0-10.0	10.0	10.0	10.0	NONE	-	29.9-30.2	30.1	30.4	3958 72 44	0656 1626
C 7	0-15	4 12	0928	DAY	78	9.5-9.9	9.9	9.9	9.3	NONE	-	29.7-30.3	30.1	29.7	3946 72 33	0654 1626
C 7	18-33	4 12	0928	DAY	78	9.9-9.9	9.9	9.9	9.3	NONE	-	29.8-30.2	30.0	29.7	3946 72 33	0654 1626
C 8	0-15	4 12	1536	DAY	116	9.5-9.9	9.9	9.9	9.7	NONE	-	29.9-30.1	29.9	29.9	3934 72 22	0654 1626
C 8	18-33	4 12	1536	DAY	116	9.9-9.9	9.9	9.9	9.7	NONE	-	29.5-30.1	30.0	29.9	3934 72 22	0654 1626
C 1	0-6	5 12	1458	DAY	11	7.7-7.7	7.7	7.7	7.8	NONE	-	29.0-29.1	29.1	29.0	3951 74 04	0706 1635
C 2	0-9	5 12	1557	DAY	18	7.9-8.0	7.9	8.0	7.9	NONE	-	29.0-29.6	29.3	28.9	3948 73 59	0701 1632
C 3	0-15	5 12	1718	NIGHT	25	8.5-8.9	8.9	8.9	8.9	NONE	-	29.6-29.9	29.8	29.9	3945 73 54	0701 1622
C 4	0-15	5 12	1905	NIGHT	33	8.5-8.5	8.5	8.5	8.5	NONE	-	29.2-29.7	29.5	29.7	3939 73 43	0700 1631
C 4	18-24	5 12	1905	NIGHT	33	8.5-8.5	8.5	8.5	8.5	NONE	-	29.4-29.7	29.5	29.7	3939 73 43	0700 1631
C 5	0-15	5 12	2049	NIGHT	27	9.3-9.3	9.3	9.3	9.3	NONE	-	29.5-30.0	29.8	29.5	3932 73 32	0655 1630
C 5	18-33	5 12	2049	NIGHT	27	9.3-9.3	9.3	9.3	9.3	NONE	-	29.6-29.9	29.8	29.5	3932 73 33	0659 1630
C 6	0-15	5 12	2319	NIGHT	54	9.7-9.7	9.7	9.7	10.0	NONE	-	29.2-29.6	29.3	29.5	3923 73 19	0657 1630
C 6	18-33	5 12	2319	NIGHT	54	9.7-9.7	9.7	9.7	10.0	NONE	-	29.4-29.8	29.6	29.5	3923 73 19	0657 1630
C 7	0-15	6 12	0118	NIGHT	72	10.4-10.5	10.4	10.5	10.4	NONE	-	29.9-30.0	29.9	29.9	3914 73 03	0701 1633
C 7	18-33	6 12	0118	NIGHT	72	10.4-10.4	10.4	10.5	10.4	NONE	-	29.9-30.2	30.0	29.9	3914 73 03	0701 1633
C 8	0-15	6 12	0312	NIGHT	102	10.5-10.5	10.5	10.5	11.4	NONE	-	30.0-30.0	30.0	30.0	3906 72 50	0655 1628
C 8	18-33	6 12	0312	NIGHT	102	10.5-11.7	10.8	10.5	11.4	NONE	-	30.1-30.2	30.1	30.0	3906 72 50	0655 1628
E 1	0-6	7 12	0206	NIGHT	13	7.5-7.9	7.9	7.9	7.9	NONE	-	29.1-29.2	29.2	29.1	3917 74 31	0704 1635
E 2	0-6	7 12	0118	NIGHT	17	8.4-8.4	8.4	8.4	8.4	NONE	-	29.0-29.1	29.0	29.0	3914 74 25	0704 1635
E 3	0-6	7 12	0012	NIGHT	19	8.8-8.8	8.8	8.8	8.8	NONE	-	29.2-29.4	29.3	29.2	3911 74 20	0702 1634
E 4	0-15	6 12	2222	NIGHT	35	9.3-9.3	9.3	9.3	9.3	NONE	-	29.4-29.9	29.5	29.6	3905 74 05	0701 1624
E 5	0-15	6 12	2035	NIGHT	39	9.3-9.3	9.3	9.3	9.3	NONE	-	29.3-29.5	29.4	29.2	3859 73 59	0700 1634
E 5	18-33	6 12	2035	NIGHT	39	9.3-9.3	9.3	9.3	9.3	NONE	-	29.2-29.7	29.4	29.2	3859 73 59	0700 1634
E 6	0-15	6 12	1749	NIGHT	42	9.4-9.4	9.4	9.4	9.4	NONE	-	29.2-29.5	29.4	29.2	3854 73 49	0659 1633
E 6	18-24	6 12	1749	NIGHT	42	9.4-9.4	9.4	9.4	9.4	NONE	-	29.2-29.5	29.3	29.2	3854 73 49	0659 1633
E 7	0-15	6 12	1530	DAY	67	10.5-10.5	10.5	10.5	10.5	NONE	-	29.8-30.2	29.9	29.8	3845 73 33	0657 1632
E 7	18-33	6 12	1530	DAY	67	10.5-10.7	10.6	10.5	10.5	NONE	-	29.8-30.2	30.0	29.8	3845 73 33	0657 1632
E 8	0-15	6 12	1013	DAY	103	10.6-10.6	10.6	10.6	11.1	GRADUAL	-	29.7-30.1	30.0	29.7	3836 73 18	0656 1632
E 8	18-33	6 12	1013	DAY	103	10.6-12.2	11.2	10.6	11.1	GRADUAL	-	29.5-30.5	30.0	29.7	3836 73 18	0656 1632
F 1	0-9	9 12	1707	NIGHT	17	7.2-7.3	7.3	7.3	7.0	NONE	-	28.4-28.6	28.5	28.3	3846 75 03	0706 1638
F 2	0-9	9 12	1803	NIGHT	17	7.3-7.4	7.3	7.3	7.4	NONE	-	24.3-24.6	24.5	24.3	3843 74 58	0706 1638
F 3	0-15	9 12	1901	NIGHT	28	7.5-8.2	8.1	7.9	8.3	NONE	-	29.4-29.6	29.5	29.3	3840 74 52	0705 1628
F 4	0-15	10 12	0119	NIGHT	20	9.1-9.2	9.2	9.2	9.1	NONE	-	30.1-30.2	30.1	30.1	3835 74 41	0706 1638
F 5	0-15	10 12	0243	NIGHT	34	9.4-9.4	9.4	9.4	9.4	NONE	-	30.1-30.2	30.1	30.0	3829 74 30	0704 1637
F 5	18-33	10 12	0243	NIGHT	34	9.4-9.4	9.4	9.4	9.4	NONE	-	30.1-30.4	30.2	30.0	3829 74 30	0704 1637
F 6	0-15	10 12	0745	DAY	46	9.7-9.7	9.7	9.7	10.0	NONE	-	30.6-31.4	30.9	31.3	3821 74 13	0702 1637
F 6	18-33	10 12	0745	DAY	46	9.7-10.0	9.8	9.7	10.0	NONE	-	30.4-32.1	30.8	31.3	3821 74 13	0702 1637
F 7	0-15	10 12	1005	DAY	68	10.2-10.2	10.2	10.2	10.9	NONE	-	31.6-32.1	31.7	31.6	3813 73 57	0702 1636
F 7	18-33	10 12	1005	DAY	68	10.2-10.2	10.2	10.2	10.9	NONE	-	31.9-33.2	32.1	31.6	3813 73 57	0702 1636
G 1	0-3	11 12	0203	NIGHT	11	8.4-8.5	8.5	8.5	8.4	NONE	-	31.0-31.1	31.0	31.1	3807 75 09	0707 1641
G 2	0-3	11 12	0119	NIGHT	12	9.0-9.1	9.0	9.0	9.1	NONE	-	29.6-29.8	29.7	29.5	3804 75 04	0706 1641
G 3	0-6	10 12	2302	NIGHT	18	9.8-10.0	9.9	10.0	9.5	NONE	-	30.1-30.4	30.3	30.0	3801 74 59	0705 1641
G 4	0-15	10 12	1726	NIGHT	25	10.1-10.2	10.2	10.1	10.2	NONE	-	31.8-32.2	32.0	32.2	3756 74 46	0702 1640
G 5	0-15	10 12	1754	NIGHT	48	10.0-10.0	10.0	10.0	10.0	NONE	-	31.0-31.5	31.3	31.4	3750 74 38	0704 1640
G 5	18-33	10 12	1754	NIGHT	48	10.0-10.0	10.0	10.0	10.0	NONE	-	31.4-32.8	32.3	31.4	3750 74 38	0704 1640
G 6	0-15	10 12	1605	DAY	75	10.5-10.5	10.5	10.5	11.0	NONE	-	31.2-32.0	31.7	31.9	3742 74 22	0702 1639
G 6	18-33	10 12	1605	DAY	79	10.5-10.5	10.5	10.5	11.0	NONE	-	31.4-33.6	32.4	31.9	3742 74 22	0702 1639
H 1	0-6	11 12	0622	NIGHT	8	8.4-8.8	8.6	8.8	8.0	GRADUAL	-	28.6-28.8	28.7	28.8	3734 75 33	0707 1644
H 2	0-6	11 12	0718	DAY	15	9.8-9.9	9.9	9.8	9.9	NONE	-	29.7-29.8	29.7	29.7	3732 75 28	0707 1644
H 3	0-6	11 12	0812	DAY	23	10.0-10.0	10.0	10.0	10.9	NONE	-	28.3-28.4	28.3	28.3	3730 75 22	0706 1643
H 4	0-15	11 12	1237	DAY	25	10.7-10.7	10.7	10.7	10.7	NONE	-	28.1-30.0	29.2	28.1	3727 75 10	0705 1643
H 5	0-15	11 12	1405	DAY	38	11.2-11.5	11.4	11.5	11.2	NONE	-	33.4-33.6	33.5	33.5	3723 74 56	0704 1642
H 5	18-24	11 12	1409	DAY	38	11.2-11.2	11.2	11.5	11.2	NONE	-			33.5	3723 74 58	0704 1642
H 6	0-15	11 12	1802	NIGHT	77	10.5-10.5	10.5	10.5	11.0	NONE	-	33.8-34.0	33.9	33.8	3718 74 40	0703 1642
H 6	18-33	11 12	1802	NIGHT	77	10.5-10.5	10.5	10.5	11.0	NONE	-	33.5-34.0	34.0	33.8	3718 74 40	0703 1642
H 7	0-15	11 12	1949	NIGHT	110	10.7-10.7	10.7	10.7	11.3	NONE	-	33.0-33.6	33.3	33.0	3716 74 34	0702 1641
H 7	18-33	11 12	1949	NIGHT	110	10.7-10.7	10.7	10.7	11.3	NONE	-	33.3-33.7	33.5	33.0	3716 74 34	0702 1641
J 1	0-3	12 12	1813	NIGHT	9	9.7-9.9	9.8	9.7	10.2	NONE	-	29.8-30.4	30.1	29.8	3655 75 58	0704 1644
J 2	0-3	12 12	1909	NIGHT	9	9.8-10.0	10.0	9.8	10.8	NONE	-	30.3-30.8	30.6	30.3	3655 75 52	0707 1647
J 3	0-6	12 12	1030	DAY	16	10.0-10.0	10.0	10.0	10.9	NONE	-	30.5-32.1	31.4	30.5	3654 75 45	0707 1647
J 4	0-6	12 12	0902	DAY	17	10.5-11.0	11.0	10.9	11.0	NONE	-	32.8-32.8	32.8	32.8	3653 75 33	0706 1646
J 5	0-15	12 12	0537	NIGHT	26	10.8-10.9	10.8	10.9	10.8	NONE	-	32.5-34.0	33.1	34.0	3652 75 21	0705 1645
J 6	0-15	12 12	0318	NIGHT	35	11.0-11.0	11.0	11.0	11.0	NONE	-	33.0-33.3	33.2	33.0	3650 75 02	0703 1644
J 6	18-24	12 12	0318	NIGHT	35	11.0-11.0	11.0	11.0	11.0	NONE	-	33.0-33.1	33.0	33.0	3650 75 02	0703 1644
J 7	0-15	11 12	2309	NIGHT	65	10.5-10.5	10.5	10.5	11.3	NONE	-	32.5-33.3	33.0	32.5	3648 74 44	0702 1643
J 7	18-33	11 12	2309	NIGHT	85											

TABLE 2. (continued)

CRUISE STA.	TOW DEPTH [M]	DATE 1965 O M	TOW START FST	LIGHT COND.	WATER DEPTH [M]	***** RANGE	TEMPERATURE MEAN	(C) SURF.	***** BOT.	THERMOCLINE DEGREE	DEPTH [M]	**** RANGE	SALINITY 10/00 MEAN	**** SURF.	POSITION LAT. LONG.	** SUN ** RIS [SET
K 4	19-24	13 12	0410	NIGHT	31	11.9-11.9	11.9	12.0	11.9	NONE	-	34.3-34.5	34.5	33.9	3622 75 23	0705 1647
K 5	0-15	13 12	0607	NIGHT	35	11.3-11.5	11.3	11.5	11.3	NONE	-	32.5-32.9	32.6	32.9	3622 75 11	0704 1646
K 5	18-24	13 12	0607	NIGHT	35	11.3-11.3	11.3	11.5	11.3	NONE	-	32.7-32.9	32.8	32.9	3622 75 11	0704 1646
K 6	0-15	13 12	0948	DAY	48	11.3-11.4	11.3	11.4	11.2	NONE	-	32.8-33.1	33.0	32.8	3621 75 58	0703 1645
K 6	18-33	13 12	0948	DAY	48	11.3-11.3	11.3	11.4	11.2	NONE	-	33.2-33.3	33.2	32.8	3621 75 58	0703 1645
K 7	0-15	13 12	1139	DAY	260	10.3-10.3	10.3	10.3	10.5	NONE	-	33.4-33.6	33.5	33.4	3621 75 46	0702 1644
K 7	19-33	13 12	1139	DAY	260	10.3-10.3	10.3	10.3	10.5	NONE	-	33.6-33.6	33.6	33.4	3621 75 46	0702 1644
L 1	0-6	13 12	1939	NIGHT	18	11.3-11.5	11.4	11.3	11.7	NONE	-	33.8-34.6	34.2	34.6	3546 75 30	0703 1649
L 2	0-6	13 12	2044	NIGHT	24	11.9-11.9	11.9	11.9	11.9	NONE	-	33.9-34.3	34.1	33.9	3546 75 24	0703 1649
L 3	0-15	13 12	2152	NIGHT	35	12.1-12.4	12.3	12.4	12.2	NONE	-	34.1-34.2	34.2	34.2	3546 75 17	0702 1648
L 3	18-24	13 12	2152	NIGHT	35	12.2-12.2	12.2	12.4	12.2	NONE	-	33.9-34.1	34.0	34.2	3546 75 17	0702 1648
L 4	0-15	14 12	0125	NIGHT	43	11.8-12.2	12.0	12.2	11.8	NONE	-	33.8-33.8	33.8	33.8	3545 75 05	0702 1647
L 4	19-33	14 12	0125	NIGHT	43	11.8-11.8	11.8	12.2	11.8	NONE	-	32.8-33.9	33.8	33.8	3545 75 05	0702 1647
L 5	0-15	14 12	0315	NIGHT	105	11.5-12.5	11.7	11.8	12.7	-	-	33.9-34.4	34.0	33.9	3545 75 52	0701 1646
L 5	19-33	14 12	0315	NIGHT	105	12.4-12.4	12.4	11.8	12.7	-	-	34.7-35.0	34.9	33.9	3545 75 52	0701 1646
M 1	0-3	14 12	1938	NIGHT	12	12.4-12.4	12.4	12.4	12.5	NONE	-	34.1-34.4	34.2	34.1	3518 75 29	0702 1651
M 2	0-9	14 12	1720	NIGHT	18	12.6-12.7	12.6	12.7	12.6	NONE	-	-	-	-	3516 75 23	0702 1651
M 3	0-15	14 12	1553	DAY	20	12.7-12.8	12.7	12.8	12.7	NONE	-	33.2-34.5	33.6	34.5	3514 75 18	0701 1650
M 4	0-15	14 12	1445	DAY	26	13.0-13.1	13.1	13.1	12.8	NONE	-	34.1-34.5	34.2	34.5	3512 75 12	0701 1650
M 4	18-24	14 12	1445	DAY	26	12.8-13.0	12.9	13.1	12.8	NONE	-	34.2-34.2	34.2	34.5	3512 75 12	0701 1650
M 5	0-15	14 12	1235	DAY	90	23.1-23.1	23.1	23.1	20.1	GRADUAL	-	-	-	-	3510 75 07	0700 1649
M 5	18-33	14 12	1235	DAY	90	22.5-23.1	22.8	23.1	20.1	GRADUAL	-	-	-	-	3510 75 07	0700 1649
N 1	0-6	15 12	0005	NIGHT	19	14.3-14.4	14.3	14.4	14.3	NONE	-	34.6-34.8	34.7	34.6	3501 75 57	0700 1650
N 2	0-15	15 12	0058	NIGHT	24	18.4-18.8	18.5	18.4	19.4	NONE	-	35.1-35.8	35.5	35.1	3456 75 55	0700 1650
N 3	0-15	15 12	0341	NIGHT	25	17.5-17.5	17.5	17.5	17.8	NONE	-	35.3-36.5	35.8	36.5	3451 75 52	0702 1653
N 4	0-15	15 12	0520	NIGHT	45	19.1-20.6	20.1	20.6	17.6	GRADUAL	-	36.3-36.8	36.6	36.8	3442 75 48	0703 1654
N 4	18-33	15 12	0520	NIGHT	45	17.6-18.9	18.2	20.6	17.6	GRADUAL	-	36.1-36.2	36.1	36.8	3442 75 48	0703 1654
N 5	0-15	15 12	0900	DAY	128	20.5-20.5	20.5	20.5	17.0	GRADUAL	-	36.3-36.3	36.3	36.3	3433 75 44	0702 1654
N 5	18-33	15 12	0900	DAY	128	19.5-20.4	20.2	20.5	17.0	GRADUAL	-	36.2-36.3	36.3	36.3	3433 75 44	0702 1654
P 1	0-3	15 12	2051	NIGHT	15	12.6-12.7	12.7	12.7	12.6	NONE	-	35.4-35.5	35.5	35.5	3438 75 40	0706 1658
P 2	0-6	15 12	1925	NIGHT	17	15.3-16.3	15.8	16.3	15.0	WEAK	5-9	36.2-36.4	36.3	36.4	3429 76 32	0705 1657
P 3	0-15	15 12	1810	NIGHT	26	14.6-18.4	16.9	18.4	14.4	GRADUAL	-	36.2-36.2	36.2	36.2	3421 75 26	0705 1658
P 4	0-15	15 12	1630	DUSK	34	22.4-23.2	23.0	23.2	19.3	GRADUAL	-	36.9-37.5	37.1	36.9	3413 76 20	0703 1657
P 4	18-33	15 12	1630	DUSK	34	19.3-22.3	21.5	23.2	19.3	GRADUAL	-	-	-	36.9	3413 75 20	0703 1657
P 5	0-15	15 12	1335	DAY	82	25.4-25.4	25.4	25.4	23.5	GRADUAL	-	37.4-37.8	37.6	37.8	3404 75 13	0703 1657
P 5	18-33	15 12	1335	DAY	82	25.4-25.4	25.4	25.4	23.5	GRADUAL	-	37.2-37.7	37.5	37.8	3404 75 13	0703 1657

TABLE 2. (continued)

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CRUISE 06601 STA.	TOW DEPTH (M)	DATE 1966 D M	TOW START HST	LIGHT COND.	WATER DEPTH (M)	***** RANGE	TEMPERATURE MEAN SURF.	ICI BOT.	***** DEGREE	THERMOCLINE DEPTH (M)	**** RANGE	SALINITY (10/CO)	**** SURF.	POSITION LAT. LONG.	** SUN ** RISE SET
A 1	0-6	26 1	1627	DAWN	16	1.1- 1.1	1.1	1.1	1.1	NONE	-	32.3-32.3	32.3	4117 7048	0700 1651
A 2	0-15	26 1	1729	NIGHT	33	0.8- 0.9	0.9	0.8	0.9	NONE	-	32.4-32.4	32.4	4112 7047	0700 1652
B 1	0-15	26 1	0653	DAWN	22	1.6- 2.1	1.8	1.6	2.1	NONE	-	30.9-31.6	31.2	4103 7151	0704 1656
B 2	0-15	26 1	0542	NIGHT	34	2.4- 2.5	2.4	2.5	2.7	NONE	-	32.0-32.2	32.1	4058 7149	0703 1656
B 3	0-15	26 1	0429	NIGHT	48	3.2- 3.2	3.2	3.2	3.2	NONE	-	32.3-32.3	32.3	4054 7147	0702 1656
B 3	18-33	26 1	0429	NIGHT	48	3.2- 3.2	2.2	3.2	3.2	NONE	-	32.3-32.4	32.3	4054 7147	0702 1656
B 4	0-15	26 1	0254	NIGHT	60	4.1- 4.1	4.1	4.1	4.1	NONE	-	32.3-32.3	32.3	4044 7144	0703 1657
B 4	18-33	26 1	0254	NIGHT	60	4.1- 4.1	4.1	4.1	4.1	NONE	-	31.9-32.3	32.2	4044 7144	0703 1657
B 5	0-15	26 1	0115	NIGHT	73	4.8- 4.8	4.8	4.8	4.8	NONE	-	32.3-32.5	32.4	4034 7140	0702 1657
B 5	18-33	26 1	0115	NIGHT	73	4.8- 4.8	4.8	4.8	4.8	NONE	-	32.3-32.4	32.4	4034 7140	0702 1657
B 6	0-15	25 1	2347	NIGHT	80	4.9- 4.9	4.9	4.9	4.9	NONE	-	32.3-32.3	32.3	4020 7135	0701 1655
B 6	18-33	25 1	2347	NIGHT	80	4.9- 4.9	4.9	4.9	4.9	NONE	-	32.3-32.4	32.2	4020 7135	0701 1655
B 7	0-15	25 1	2144	NIGHT	89	4.8- 4.8	4.8	4.8	4.8	NONE	-	32.3-32.4	32.4	4005 7129	0701 1656
B 7	18-33	25 1	2144	NIGHT	89	4.8- 4.8	4.8	4.8	4.8	NONE	-	32.4-32.5	32.4	4005 7129	0701 1656
C 1	0-15	2 2	0106	NIGHT	21	-0.8- 0.9	0.3	-0.8	0.9	WEAK	2-9	30.7-32.6	31.9	4035 7317	0702 1711
C 2	0-15	2 2	0158	NIGHT	26	-0.3- 1.7	1.4	-0.3	1.7	WEAK	0-5	31.7-32.5	32.3	4031 7314	0702 1711
C 3	0-15	2 2	0257	NIGHT	32	1.5- 2.0	1.8	1.5	2.1	NONE	-	32.2-32.5	32.3	4027 7310	0702 1712
C 3	18-24	2 2	0257	NIGHT	32	2.1- 2.1	2.1	1.5	2.1	NONE	-	32.4-32.5	32.4	4027 7310	0702 1712
C 4	0-15	3 2	2042	NIGHT	35	3.0- 3.1	3.0	3.1	3.0	NONE	-	32.4-32.6	32.5	4019 7303	0704 1716
C 4	18-24	3 2	2042	NIGHT	35	3.0- 3.0	3.0	3.1	3.0	NONE	-	32.3-32.6	32.5	4019 7303	0704 1716
C 5	0-15	3 2	2208	NIGHT	48	3.8- 3.8	3.8	3.8	3.8	NONE	-	32.4-32.6	32.5	4010 7255	0659 1712
C 5	18-33	3 2	2208	NIGHT	48	3.8- 3.8	3.8	3.8	3.8	NONE	-	32.5-32.6	32.6	4010 7255	0659 1712
C 6	0-15	4 2	0010	NIGHT	57	4.3- 4.3	4.3	4.3	4.2	NONE	-	32.5-32.6	32.6	3958 7244	0657 1713
C 6	18-33	4 2	0010	NIGHT	57	4.2- 4.2	4.2	4.3	4.2	NONE	-	32.6-32.6	32.6	3958 7244	0657 1713
C 7	0-15	4 2	0220	NIGHT	67	4.7- 5.0	4.8	4.7	7.1	WEAK	47-56	32.6-32.7	32.6	3946 7233	0656 1712
C 7	18-33	4 2	0220	NIGHT	67	5.0- 5.0	5.0	4.7	7.1	WEAK	47-56	32.6-32.8	32.7	3946 7233	0656 1712
C 8	0-15	4 2	0408	NIGHT	110	5.8- 5.8	5.8	5.8	7.8	WEAK	83-88	33.1-33.3	33.2	3934 7222	0655 1713
C 8	18-33	4 2	0408	NIGHT	110	5.8- 5.8	5.8	5.8	7.8	WEAK	83-88	33.2-33.3	33.2	3934 7222	0655 1713
D 1	0-6	4 2	1729	NIGHT	16	0.8- 0.9	0.9	0.8	0.9	NONE	-	31.8-31.9	31.9	3951 7404	0706 1722
D 2	0-6	4 2	1816	NIGHT	22	1.4- 1.4	1.4	1.4	1.5	NONE	-	32.5-32.5	32.5	3948 7359	0702 1718
D 3	0-15	4 2	1910	NIGHT	25	1.5- 1.9	1.9	1.9	1.9	NONE	-	32.7-32.8	32.7	3945 7354	0701 1718
D 4	0-15	4 2	2028	NIGHT	27	2.4- 2.4	2.4	2.4	2.4	NONE	-	32.8-33.0	32.9	3939 7343	0700 1718
D 5	0-15	4 2	2220	NIGHT	37	2.5- 2.9	2.9	2.9	2.9	NONE	-	32.9-33.1	32.9	3932 7332	0655 1717
D 5	18-24	4 2	2220	NIGHT	37	2.9- 2.9	2.9	2.9	2.9	NONE	-	33.3-33.5	33.5	3932 7333	0659 1717
D 6	0-15	4 2	1210	DAY	50	3.2- 3.2	3.2	3.2	3.1	NONE	-	32.6-32.7	32.6	3923 7315	0658 1716
D 6	18-33	4 2	1210	DAY	50	3.1- 3.1	3.1	3.2	3.1	NONE	-	32.7-33.1	32.9	3923 7315	0658 1716
D 7	0-15	4 2	1016	DAY	70	4.8- 4.8	4.8	4.8	7.1	WEAK	47-55	32.5-33.3	33.0	3914 7303	0700 1719
D 7	18-33	4 2	1016	DAY	70	4.8- 4.9	4.8	4.8	7.1	WEAK	47-55	33.1-33.3	33.1	3914 7303	0700 1719
D 8	0-15	4 2	0827	DAY	110	4.8- 5.0	4.9	4.8	7.2	WEAK	91-99	33.0-33.2	33.1	3906 7250	0655 1715
D 8	18-33	4 2	0927	DAY	110	5.0- 5.1	5.0	4.8	7.2	WEAK	91-99	33.2-33.4	33.3	3906 7250	0655 1715
E 1	0-6	5 2	0321	NIGHT	14	-1.8- -1.6	-1.8	-1.8	-1.6	NONE	-	30.5-30.7	30.6	3917 7431	0702 1722
E 2	0-6	5 2	0415	NIGHT	17	-1.4- -1.3	-1.3	-1.4	-1.2	NONE	-	31.6-31.7	31.7	3914 7425	0701 1723
E 3	0-6	5 2	0508	NIGHT	20	-0.5- -0.5	-0.5	-0.5	-0.5	NONE	-	31.0-33.2	32.3	3911 7420	0700 1722
E 4	0-15	5 2	0625	DAWN	30	1.3- 1.3	1.3	1.3	1.3	NONE	-	32.5-32.3	32.9	3905 7405	0700 1722
E 5	0-15	5 2	0804	DAY	37	2.5- 2.9	2.9	2.9	2.9	NONE	-	32.6-33.3	32.8	3859 7359	0659 1721
E 5	18-24	5 2	0804	DAY	37	2.9- 2.9	2.9	2.9	2.9	NONE	-	33.2-33.8	33.6	3859 7359	0659 1721
E 6	0-15	5 2	0933	DAY	42	3.5- 3.9	3.9	3.9	3.9	NONE	-	32.7-33.7	33.1	3854 7345	0656 1720
E 6	18-24	5 2	0933	DAY	42	3.9- 3.9	3.9	3.9	3.9	NONE	-	33.5-34.0	33.9	3854 7349	0658 1720
E 7	0-15	5 2	1126	DAY	66	4.8- 4.9	4.8	4.8	6.4	GRADUAL	-	33.6-34.0	33.9	3845 7333	0656 1719
E 7	18-33	5 2	1126	DAY	66	4.5- 5.3	5.0	4.8	6.4	GRADUAL	-	33.5-34.2	33.8	3845 7333	0656 1719
E 8	0-15	5 2	1326	DAY	121	5.6- 5.6	5.6	5.6	5.6	NONE	-	33.6-33.6	33.6	3836 7318	0655 1719
E 8	18-33	5 2	1326	DAY	121	5.6- 5.6	5.6	5.6	5.6	NONE	-	33.6-33.6	33.6	3836 7318	0655 1719
F 2	0-6	6 2	0520	NIGHT	22	-1.6- -1.6	-1.6	-1.6	-1.3	NONE	-	30.7-31.8	31.2	3843 7458	0701 1727
F 3	0-15	6 2	0359	NIGHT	24	-1.4- -0.6	-1.2	-1.4	0.5	NONE	-	31.1-32.4	31.6	3840 7452	0700 1726
F 4	0-15	6 2	0242	NIGHT	26	0.7- 0.9	0.8	0.8	0.8	NONE	-	32.6-33.2	32.7	3835 7441	0700 1726
F 5	0-15	6 2	0108	NIGHT	34	1.5- 1.8	1.7	1.6	1.5	NONE	-	32.6-33.2	33.0	3829 7430	0655 1725
F 5	18-24	6 2	0108	NIGHT	34	1.5- 1.5	1.5	1.6	1.5	NONE	-	33.2-33.4	33.3	3829 7430	0659 1725
F 6	0-15	5 2	2246	NIGHT	52	5.1- 5.1	5.1	5.1	5.1	NONE	-	32.3-34.3	32.7	3821 7413	0655 1723
F 6	18-33	5 2	2246	NIGHT	52	5.1- 5.1	5.1	5.1	5.1	NONE	-	33.8-34.1	34.0	3821 7413	0659 1723
F 7	0-15	5 2	1747	NIGHT	78	5.4- 5.4	5.4	5.4	6.3	NONE	-		34.5	3813 7357	0658 1722
F 7	18-33	5 2	1747	NIGHT	78	5.4- 5.4	5.4	5.4	6.3	NONE	-		34.5	3813 7357	0657 1723
G 1	0-6	6 2	0946	DAY	13	-0.1- -0.1	-0.1	-0.1	-0.1	NONE	-	32.5-32.5	32.5	3807 7505	0701 1729
G 2	0-6	6 2	1046	DAY	16	0.8- 0.8	0.8	0.8	0.8	NONE	-	33.3-33.3	33.3	3804 7504	0700 1728
G 3	0-15	6 2	1147	DAY	21	1.1- 1.2	1.2	1.1	1.1	NONE	-	33.3-33.5	33.4	3801 7459	0700 1728
G 4	0-15	6 2	0103	NIGHT	27	2.6- 2.7	2.6	2.6	2.8	NONE	-	32.7-33.3	33.0	3156 7448	0655 1727
G 5	0-15	6 2	1428	DAY	52	3.6- 3.7	3.6	3.6	4.3	NONE	-	33.0-33.2	33.1	3750 7438	0659 1728
G 5	18-33	6 2	1428	DAY	52	3.9- 4.1	4.0	3.6	4.3	NONE	-	33.4-33.9	33.7	3750 7438	0655 1728
G 6	0-15	6 2	1611	DAY	86	5.5- 5.5	5.5	5.5	5.3	NONE	-	33.8-34.1	33.9	3742 7422	0656 1727
G 6	18-33	6 2	1611	DAY	86	5.3- 5.5	5.4	5.5	5.3	NONE	-	34.2-34.5	34.3	3742 7422	0656 1727
H 1	0-6	7 2	0253	NIGHT	11	-0.2- 1.4	-0.2	-0.2	0.2	NONE	-	31.5-31.7	31.6	3734 7533	0700 1732
H 2	0-6	7 2	0200	NIGHT	16	0.5- 0.7	0.6	0.5	0.7	NONE	-	31.6-32.0	31.8	3732 7528	0700 1732
H 3	0-6	7 2	0059	NIGHT	22	1.5- 1.6	1.6	1.5	1.6	NONE	-	32.2-32.4	32.3	3730 7522	0659 1731
H 4	0-15	6 2	2332	NIGHT	27	2.8- 2.8	2.8	2.8	2.8	NONE	-	32.7-33.0	32.9	3727 7510	0700 1730
H 5	0-15	6 2	2206	NIGHT	35	4.5- 4.7	4.6	4.5	4.7	NONE	-	33.2-33.6	33.4	3723 7456	0655 1729
H 5	18-24	6 2	2206	NIGHT	35	4.7- 4.7	4.7	4.5	4.7	NONE	-	33.5-33.5	33.5	3723 7458	0659 1729
H 6	0-15	6 2	2011	NIGHT	83	5.5- 5.8	5.7	5.8	5.5	NONE	-	34.0-34.2	34.1	3718 7440	0656 1729
H 6	18-33	6 2	2011	NIGHT	83	5.3- 5.5	5.4	5.8	5.5	NONE	-	34.2-34.3	34.3	3718 7440	0656 1729
H 7	0-15	6 2	1903	NIGHT	129	7.8- 7.9	7.8	7.9	5.2	STRONG	31-40	34.2-34.5	34.4	3716 7434	0657 1728
H 7	18-33	6 2	1903	NIGHT	129	6.7- 7.8	7.6	7.9	5.2	STRONG	31-40	34.4-34.9	34.5	3716 7434	0657 1728

TABLE 2. (continued)

CRUISE [6601 STA.]	TOW DEPTH [M]	DATE 1966 D P	TOW START FST	LIGHT COND.	WATER DEPTH [M]	***** RANGE	TEMPERATURE [C] MEAN SURF.	***** 80Y.	THERMOCLINE DEGREE DEPTH [M]	**** RANGE	SALINITY [0/00] MEAN	**** SURF.	POSITION LAT. LONC.	** SUN ** RISE SET		
J 1	0-6	7 2	0721	DAY	11	0.4-0.7	0.5	0.7	0.4	NONE	-	30.2-30.8	30.4	30.7	3655 7558	0657 1731
J 2	0-6	7 2	0812	DAY	12	0.6-0.6	0.6	0.6	0.6	NONE	-	30.0-30.4	30.2	30.0	3655 7552	0700 1734
J 3	0-6	7 2	0906	DAY	12	1.1-1.2	1.2	1.1	1.2	NONE	-	31.5-31.7	31.6	31.4	3654 7545	0700 1734
J 4	0-15	7 2	1030	CAY	20	2.4-2.6	2.4	2.6	2.4	NONE	-	32.3-32.7	32.6	32.2	3653 7533	0659 1733
J 5	0-15	7 2	1143	DAY	26	3.5-3.6	3.5	3.6	3.5	NONE	-	32.9-33.0	33.0	32.9	3652 7521	0658 1732
J 6	0-15	7 2	1321	DAY	25	5.1-5.4	5.1	5.4	5.3	NONE	-	33.4-33.6	33.5	33.4	3650 7502	0657 1731
J 6	18-24	7 2	1321	DAY	35	5.1-5.3	5.2	5.4	5.3	NONE	-	33.6-33.7	33.6	33.4	3650 7502	0657 1731
J 7	0-15	7 2	1514	DAY	84	7.1-7.3	7.2	7.1	7.7	-	-	33.7-34.2	33.9	33.7	3648 7444	0656 1731
J 7	18-33	7 2	1514	DAY	84	7.4-8.4	7.7	7.1	7.7	-	-	34.0-34.5	34.1	33.7	3648 7444	0656 1731
K 1	0-6	8 2	0138	NIGHT	15	1.5-1.6	1.5	1.6	1.5	NONE	-	30.9-31.2	31.1	30.9	3623 7548	0659 1726
K 2	0-15	8 2	0038	NIGHT	25	1.5-1.9	1.6	1.8	2.1	NONE	-	31.2-32.1	31.6	31.2	3623 7542	0659 1736
K 3	0-15	7 2	2322	NIGHT	22	3.4-3.8	3.5	3.8	3.4	NONE	-	32.6-32.6	32.6	32.6	3622 7536	0655 1734
K 4	0-15	7 2	2220	NIGHT	31	4.1-4.1	4.1	4.1	4.1	NONE	-	32.6-32.8	32.7	32.6	3622 7523	0659 1734
K 5	0-15	7 2	2101	NIGHT	34	5.1-5.1	5.1	5.1	5.2	NONE	-	33.3-33.3	33.3	33.2	3622 7511	0658 1733
K 5	18-24	7 2	2101	NIGHT	34	5.1-5.1	5.1	5.1	5.2	NONE	-	33.3-33.3	33.3	33.2	3622 7511	0658 1733
K 6	0-15	7 2	1938	NIGHT	50	14.4-14.8	14.7	14.4	13.2	NONE	-	34.9-35.1	35.0	34.9	3621 7456	0657 1732
K 6	18-33	7 2	1938	NIGHT	50	13.4-14.7	14.0	14.4	13.2	NONE	-	35.0-35.0	35.0	34.9	3621 7456	0657 1732
K 7	0-15	7 2	1807	NIGHT	725	16.0-16.0	16.0	16.0	11.5	WEAK	74-92	35.3-35.3	35.3	35.3	3621 7446	0656 1731
K 7	18-33	7 2	1807	NIGHT	725	16.0-16.0	16.0	16.0	11.5	WEAK	74-92	35.3-35.4	35.4	35.3	3621 7446	0656 1731
L 1	0-6	8 2	0711	CAY	19	2.0-2.4	2.2	2.4	2.0	NONE	-	31.9-31.9	31.9	31.9	3546 7530	0657 1736
L 2	0-6	8 2	0824	DAY	23	3.3-3.4	3.4	3.3	3.4	NONE	-	32.4-32.4	32.4	32.3	3546 7524	0657 1726
L 3	0-15	8 2	0927	CAY	34	3.9-4.1	4.0	4.1	3.9	NONE	-	32.6-32.9	32.7	32.6	3546 7517	0656 1735
L 3	18-24	8 2	0927	DAY	34	3.9-3.9	3.9	4.1	3.9	NONE	-	32.6-32.8	32.8	32.6	3546 7517	0656 1735
L 4	0-15	8 2	1050	DAY	48	5.0-5.1	5.1	5.1	4.8	NONE	-	32.8-32.9	32.9	32.8	3545 7505	0655 1734
L 4	18-33	8 2	1050	DAY	48	4.8-4.9	4.8	5.1	4.8	NONE	-	33.0-33.0	33.0	32.8	3545 7505	0655 1734
L 5	0-15	8 2	1225	DAY	145	13.5-14.5	14.4	14.5	11.1	GRADUAL	-	34.7-35.0	34.9	35.0	3545 7452	0654 1723
L 5	18-33	8 2	1225	DAY	145	12.2-13.2	12.7	14.5	11.1	GRADUAL	-	34.6-34.9	34.7	35.0	3545 7452	0654 1723
M 1	0-6	8 2	1633	DAY	13	3.2-3.4	3.3	3.4	3.3	NONE	-	31.6-31.6	31.6	31.6	3518 7529	0656 1737
M 2	0-6	8 2	1726	DUSK	20	3.7-3.8	3.8	3.7	3.9	NONE	-	31.7-31.7	31.7	31.7	3516 7523	0656 1737
M 3	0-6	8 2	1822	NIGHT	20	3.5-3.9	3.9	3.9	4.0	NONE	-	32.3-32.3	32.3	32.3	3514 7516	0655 1726
M 4	0-15	8 2	1915	NIGHT	42	5.3-5.4	5.3	5.4	5.3	NONE	-	32.2-32.2	32.2	32.8	3512 7512	0655 1736
M 4	18-33	8 2	1915	NIGHT	42	5.3-5.3	5.3	5.4	5.3	NONE	-	33.0-33.1	33.1	32.8	3512 7512	0655 1736
M 5	0-15	8 2	2018	NIGHT	139	12.2-17.0	16.0	17.0	10.0	STRONG	9-16	34.0-35.1	34.7	35.1	3510 7507	0654 1735
M 5	18-33	8 2	2018	NIGHT	139	10.0-11.5	10.6	17.0	10.0	STRONG	9-16	34.2-34.4	34.3	35.1	3510 7507	0654 1735
N 1	0-6	9 2	0034	NIGHT	19	5.5-5.8	5.6	5.5	6.4	NONE	-	31.3-31.5	31.4	31.3	3501 7557	0652 1726
N 2	0-15	9 2	0126	NIGHT	24	7.9-8.6	8.1	7.9	8.6	GRADUAL	-	32.7-32.1	33.0	32.7	3456 7555	0652 1737
N 3	0-15	9 2	0218	NIGHT	30	7.7-8.0	8.3	7.7	10.6	GRADUAL	-	32.6-32.9	32.8	32.7	3451 7552	0655 1740
N 4	0-15	9 2	0351	NIGHT	44	20.3-20.4	20.4	20.3	16.5	GRADUAL	-	35.4-35.6	35.5	35.4	3442 7548	0655 1740
N 4	18-33	9 2	0351	NIGHT	44	17.0-20.3	19.0	20.3	16.5	GRADUAL	-	35.6-35.7	35.6	35.4	3442 7546	0655 1740
N 5	0-15	9 2	0509	NIGHT	82	19.2-19.4	19.3	19.4	16.6	GRADUAL	-	35.3-35.5	35.5	35.3	3433 7544	0655 1740
N 5	18-33	9 2	0509	NIGHT	82	18.5-18.8	18.6	19.4	16.6	GRADUAL	-	35.3-35.4	35.4	35.3	3433 7544	0655 1740
P 1	0-6	9 2	1337	DAY	16	6.5-6.5	6.5	6.5	7.1	NONE	-	33.5-33.5	33.5	33.5	3438 7540	0659 1744
P 2	0-6	9 2	1244	DAY	17	7.2-7.6	7.4	7.6	6.5	NONE	-	33.2-33.3	33.3	33.2	3434 7637	0658 1743
P 3	0-6	9 2	1154	CAY	17	9.1-9.6	9.3	9.6	9.1	NONE	-	33.8-33.9	33.8	33.9	3429 7633	0658 1743
P 4	0-15	9 2	1033	CAY	31	14.1-17.0	15.8	17.0	13.1	WEAK	7-10	34.9-35.4	35.2	35.4	3417 7623	0657 1744
P 5	0-15	9 2	0848	DAY	60	20.0-20.0	20.0	20.0	17.8	GRADUAL	-	35.5-35.6	35.5	35.4	3404 7613	0656 1743
P 5	18-33	9 2	0848	CAY	60	19.6-19.9	19.8	20.0	17.8	GRADUAL	-	35.4-35.5	35.5	35.4	3404 7613	0656 1743

TABLE 2. (continued)

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CRUISE STA.	TOW DEPTH (M)	DATE 1966 D M	TOW START -EST	LIGHT COND.	WATER DEPTH (M)	***** RANGE	TEMPERATURE MEAN	(C) SURF.	***** BOT.	TEMPERATURE DEGREE	LINE DEPTH (M)	**** RANGE	SALINITY (0/00) MEAN	**** SURF.	POSITION LAT. LONG.	** SUN ** RISE SET
A 1	0-6	6 4	1757	DUSK	23	3.6-3.6	3.6	3.6	3.7	NONE	-	31.6-31.7	31.6	31.6	4117 7348	0519 1813
A 2	0-15	6 4	1911	NIGHT	36	3.3-3.5	3.5	3.5	3.0	NONE	-	31.7-32.1	32.0	31.7	4112 7347	0519 1813
A 3	0-15	6 4	2110	NIGHT	47	3.4-3.5	3.5	3.5	3.0	NONE	-	32.0-32.3	32.1	32.0	4107 7046	0519 1813
A 3	18-33	6 4	2110	NIGHT	47	3.0-3.4	3.1	3.5	3.0	NONE	-	29.1-32.3	30.1	32.0	4107 7346	0519 1813
A 4	0-15	6 4	2228	NIGHT	51	3.4-3.7	3.6	3.6	2.8	NONE	-	31.9-32.5	32.2	32.0	4057 7044	0519 1813
A 4	18-33	6 4	2228	NIGHT	51	2.8-3.2	3.0	3.6	2.8	NONE	-	29.4-32.4	30.5	32.0	4057 7344	0519 1813
A 5	0-15	7 4	0029	NIGHT	62	3.6-3.7	3.7	3.7	2.7	NONE	-	32.0-32.4	32.0	32.0	4047 7042	0518 1814
A 5	18-33	7 4	0029	NIGHT	62	3.0-3.5	3.5	3.1	2.7	NONE	-	33.2-33.6	33.4	32.0	4047 7042	0518 1814
A 6	0-15	7 4	0208	NIGHT	73	3.4-3.7	3.6	3.7	2.7	NONE	-	32.4-33.2	32.7	32.4	4032 7340	0518 1814
A 6	18-33	7 4	0208	NIGHT	73	3.3-3.4	3.4	3.7	2.7	NONE	-	32.3-33.7	33.5	32.4	4032 7040	0518 1814
A 7	0-15	7 4	0355	NIGHT	111	3.4-3.6	3.5	3.6	3.9	NONE	-	33.1-33.5	33.3	33.0	4017 7337	0517 1812
A 7	18-33	7 4	0355	NIGHT	111	2.9-3.3	3.2	3.6	3.9	NONE	-	33.5-32.8	32.6	33.0	4017 7037	0517 1812
R 1	0-6	7 4	1650	DAY	24	4.7-4.7	4.7	4.7	4.7	NONE	-	30.3-30.9	30.6	30.3	4103 7151	0521 1818
R 2	0-15	7 4	1556	DAY	35	6.2-6.6	6.4	6.4	6.1	NONE	-	31.7-32.2	32.1	31.6	4058 7145	0521 1818
R 3	0-15	7 4	1455	DAY	52	4.8-5.0	4.9	5.0	4.7	NONE	-	31.4-32.1	32.0	31.4	4054 7147	0521 1818
R 3	18-33	7 4	1455	DAY	52	4.7-4.7	4.7	5.0	4.7	NONE	-	25.6-30.9	30.2	31.4	4054 7147	0521 1818
R 4	0-15	7 4	1324	DAY	62	5.3-5.5	5.4	5.5	4.8	NONE	-	32.8-33.5	33.2	32.7	4044 7144	0522 1818
R 4	18-33	7 4	1324	DAY	62	5.0-5.3	5.2	5.5	4.8	NONE	-	33.7-34.1	33.9	32.7	4044 7144	0522 1818
R 5	0-15	7 4	1156	DAY	77	4.2-4.9	4.5	4.9	3.9	NONE	-	31.0-32.5	31.6	31.0	4034 7140	0522 1818
R 5	18-33	7 4	1156	DAY	77	3.7-4.1	3.9	4.9	3.9	NONE	-	30.4-32.7	31.9	31.0	4034 7140	0522 1818
R 6	0-15	7 4	1055	DAY	87	4.4-4.7	4.6	4.7	2.8	GRADUAL	-	32.2-32.2	32.2	32.2	4020 7135	0521 1816
R 6	18-33	7 4	1005	DAY	87	4.1-4.3	4.3	4.7	2.8	GRADUAL	-	33.2-33.3	33.2	32.2	4020 7135	0521 1816
R 7	0-15	7 4	0801	DAY	95	3.5-3.9	3.8	3.9	3.3	NONE	-	32.4-33.4	33.1	32.4	4005 7129	0521 1816
R 7	18-33	7 4	0801	DAY	55	3.4-3.5	3.5	3.9	3.3	NONE	-	33.4-33.6	33.5	32.4	4005 7125	0521 1816
C 1	0-15	8 4	0055	NIGHT	21	4.5-5.0	4.9	5.0	3.5	NONE	-	31.7-32.4	32.2	31.7	4035 7317	0526 1825
C 2	0-15	8 4	0058	NIGHT	28	4.0-5.2	5.0	5.2	4.0	NONE	-	31.6-32.5	32.1	31.6	4031 7314	0526 1825
C 3	0-15	8 4	0156	NIGHT	33	4.2-4.9	4.8	4.9	3.9	NONE	-	30.6-31.4	30.9	30.7	4027 7310	0526 1824
C 3	18-24	8 4	0156	NIGHT	33	3.5-4.1	4.0	4.9	3.9	NONE	-	31.5-31.7	31.6	30.7	4027 7310	0526 1824
C 4	0-15	8 4	0316	NIGHT	44	4.5-5.0	4.8	5.0	4.4	NONE	-	32.6-33.7	33.1	32.5	4019 7303	0525 1827
C 4	18-33	8 4	0316	NIGHT	44	4.4-4.4	4.4	5.0	4.4	NONE	-	33.4-33.9	33.7	32.5	4019 7303	0525 1827
C 5	0-15	8 4	0445	NIGHT	50	5.2-5.3	5.3	5.2	5.1	NONE	-	33.6-33.8	33.7	33.6	4010 7255	0526 1823
C 5	18-33	8 4	0445	NIGHT	50	5.0-5.1	5.1	5.2	5.1	NONE	-	33.6-34.3	34.0	33.6	4010 7255	0526 1823
C 6	0-15	8 4	0644	DAY	58	5.7-5.9	5.8	5.9	5.3	NONE	-	32.9-33.8	33.3	32.9	3958 7244	0525 1822
C 6	18-33	8 4	0644	DAY	58	5.3-5.6	5.4	5.9	5.3	NONE	-	33.9-34.2	34.1	32.9	3958 7244	0525 1822
C 7	0-15	8 4	0851	DAY	69	5.4-5.5	5.5	5.5	5.2	NONE	-	33.5-32.7	32.6	33.5	3946 7233	0524 1821
C 7	18-33	8 4	0851	DAY	69	5.0-5.2	5.0	5.5	5.2	NONE	-	33.8-34.0	33.9	33.5	3946 7233	0524 1821
C 8	0-15	8 4	1048	DAY	273	4.6-5.2	5.1	5.2	5.7	NONE	-	32.6-33.5	33.3	32.8	3934 7222	0524 1821
C 8	18-33	8 4	1048	DAY	273	4.4-4.5	4.5	5.2	5.7	NONE	-	33.6-34.0	33.8	32.8	3934 7222	0524 1821
D 1	0-6	9 4	0213	NIGHT	18	5.9-6.0	5.9	6.0	5.5	NONE	-	30.8-31.6	31.2	30.8	3951 7404	0532 1832
D 2	0-6	9 4	0125	NIGHT	19	6.0-6.1	6.1	6.1	5.3	NONE	-	31.5-32.0	31.8	31.4	3948 7359	0528 1828
D 3	0-15	9 4	0035	NIGHT	21	6.1-6.1	6.1	6.1	5.6	NONE	-	31.4-32.7	32.1	31.4	3945 7354	0528 1828
D 4	0-15	8 4	2317	NIGHT	32	5.5-6.1	6.1	6.1	5.1	NONE	-	31.8-32.7	32.4	31.8	3939 7343	0525 1826
D 5	0-15	8 4	2127	NIGHT	40	5.4-6.0	5.7	6.0	5.2	NONE	-	32.0-33.1	32.6	31.9	3932 7333	0528 1825
D 5	18-33	8 4	2127	NIGHT	40	5.2-5.3	5.2	6.0	5.2	NONE	-	33.4-32.9	32.6	31.5	3932 7333	0528 1825
D 6	0-15	8 4	1930	NIGHT	57	5.6-6.2	6.1	6.2	5.2	NONE	-	33.0-33.9	33.5	32.9	3923 7319	0527 1823
D 6	18-33	8 4	1930	NIGHT	57	5.2-5.5	5.4	6.2	5.2	NONE	-	33.6-34.4	34.1	32.9	3923 7319	0527 1823
D 7	0-15	8 4	1722	DAY	74	5.6-6.2	6.1	5.3	5.1	NONE	-	32.3-33.5	33.3	32.2	3914 7302	0530 1826
D 7	18-33	8 4	1722	DAY	74	5.2-5.5	5.4	5.3	5.1	NONE	-	33.6-33.8	33.7	32.2	3914 7303	0530 1826
D 8	0-15	8 4	1530	DAY	121	4.2-5.5	4.9	5.5	6.7	WEAK	6-11	31.2-34.1	33.5	33.2	3906 7250	0525 1821
D 8	18-33	8 4	1530	DAY	121	3.5-4.2	4.1	5.5	6.7	WEAK	6-11	33.6-33.9	33.8	33.2	3906 7250	0525 1821
E 1	0-6	13 4	0056	NIGHT	14	6.7-6.7	6.7	6.7	6.7	NONE	-	30.7-30.9	30.8	30.8	3917 7431	0525 1833
E 2	0-6	13 4	0228	NIGHT	19	6.4-6.4	6.4	6.4	6.6	NONE	-	30.8-31.0	30.9	31.0	3914 7425	0525 1833
E 3	0-15	22 4	1912	NIGHT	22	7.4-7.6	7.5	7.5	7.4	NONE	-	31.3-31.4	31.3	31.2	3911 7420	0511 1841
E 4	0-15	22 4	1756	DAY	33	6.8-7.5	7.3	7.5	6.6	NONE	-	31.4-31.7	31.5	31.4	3905 7405	0511 1841
E 4	18-24	22 4	1756	DAY	33	6.7-6.7	6.7	7.5	6.6	NONE	-	31.6-31.7	31.7	31.4	3905 7409	0511 1841
E 5	0-15	22 4	1640	DAY	37	6.5-7.2	7.0	7.2	6.3	NONE	-	31.5-31.9	31.6	31.5	3859 7359	0510 1839
E 5	18-24	22 4	1640	DAY	37	6.3-6.4	6.3	7.2	6.3	NONE	-	31.6-31.8	31.7	31.5	3859 7359	0510 1839
E 6	0-15	22 4	1527	DAY	45	6.9-7.0	7.0	7.0	6.4	NONE	-	31.8-32.1	32.0	31.8	3854 7349	0509 1838
E 6	18-33	22 4	1527	DAY	45	6.4-6.7	6.5	7.0	6.4	NONE	-	31.6-32.1	31.9	31.8	3854 7345	0509 1838
E 7	0-15	22 4	1344	DAY	69	6.4-6.7	6.5	6.7	5.3	NONE	-	31.6-31.8	31.7	31.5	3845 7333	0508 1837
E 7	18-33	22 4	1344	DAY	69	5.2-6.1	5.6	6.7	5.3	NONE	-	31.7-32.0	31.8	31.5	3845 7333	0508 1837
E 8	0-15	22 4	1150	DAY	134	5.2-6.5	6.1	6.5	4.6	NONE	-	31.4-31.9	31.7	31.7	3836 7318	0508 1836
E 8	18-33	22 4	1150	DAY	134	5.0-5.2	5.2	6.5	4.6	NONE	-	31.6-32.1	32.0	31.7	3836 7318	0508 1836
F 1	0-6	14 4	1045	DAY	20	6.8-6.9	6.8	6.9	6.8	NONE	-	28.2-29.2	28.7	28.2	3846 7503	0526 1836
F 2	0-6	14 4	1146	DAY	20	6.5-6.9	6.7	6.9	6.3	NONE	-	30.0-30.3	30.1	30.0	3843 7458	0526 1836
F 3	0-15	14 4	1243	DAY	27	6.3-6.5	6.4	6.5	6.3	NONE	-	31.1-31.4	31.2	31.0	3840 7452	0525 1835
F 4	0-15	14 4	1404	DAY	24	6.2-6.3	6.2	6.3	6.1	NONE	-	31.3-31.7	31.5	31.3	3835 7441	0525 1835
F 5	0-15	14 4	1528	DAY	40	5.8-5.8	5.8	5.8	5.7	NONE	-	32.1-32.2	32.2	32.1	3829 7430	0524 1833
F 5	18-33	14 4	1528	DAY	40	5.7-5.8	5.8	5.8	5.7	NONE	-	32.4-32.5	32.4	32.1	3829 7430	0524 1833
F 6	0-15	14 4	1719	DAY	52	6.2-6.3	6.3	6.3	6.2	NONE	-	32.2-32.3	32.3	32.1	3821 7413	0523 1832
F 6	18-33	14 4	1719	DAY	52	6.2-6.2	6.2	6.3	6.2	NONE	-	32.5-32.6	32.6	32.1	3821 7413	0523 1832
F 7	0-15	14 4	1910	NIGHT	70	5.0-5.0	5.0	5.0	5.4	NONE	-	32.2-32.5	32.4	32.1	3813 7357	0523 1831
F 7	18-33	14 4	1910	NIGHT	70	4.5-5.2	5.0	5.0	5.4	NONE	-	32.5-32.6	32.6	32.1	3813 7357	0523 1831
G 1	0-6	15 4	0655	DAY	15	6.5-6.9	6.9	6.9	6.9	NONE	-	29.9-30.1	30.0	29.9	3807 7505	0526 1837
G 2	0-6	15 4	0654	NIGHT	16	6.7-6.7	6.7	6.7	6.3	NONE	-	30.6-30.8	30.7	30.6	3804 7504	0525 1836
G 3	0-15	15 4	0323	NIGHT	24	6.0-6.1	6.1	6.1	6.0							

TABLE 2. (continued)

CRUISE D6603 STA.	TOW DEPTH (M)	DATE 1966 D M	TOW STAR EST	LIGHT COND.	WATER DEPTH (M)	***** RANGE	TEMPERATURE MEAN SURF.	(C) 80T.	***** DEGREE	THERMOCLINE DEPTH (M)	**** FAGE	SALINITY (0/00) MEAN	**** SURF.	***** LAT.	***** LONG.	** SUN ** RISE SET
H 1	0-6	15 4	1406	DAY	15	8.3-9.2	8.7	9.2	8.4	NONE	-	31.0-31.0	31.0	30.9	3734 7533	0526 1837
H 2	0-15	15 4	1452	DAY	21	8.5-8.6	8.5	8.6	8.5	NONE	-	31.4-31.9	31.7	31.4	3732 7528	0528 1837
H 3	0-15	15 4	1548	DAY	25	7.8-8.2	7.9	8.2	7.0	NONE	-	32.3-32.8	32.6	32.3	3730 7522	0527 1836
H 4	0-15	15 4	1712	DAY	31	7.2-7.4	7.2	7.4	7.2	NONE	-	31.6-32.0	31.9	31.6	3727 7510	0527 1836
H 5	0-15	15 4	1911	NIGHT	37	6.6-6.9	6.7	6.9	6.6	NONE	-	32.3-32.4	32.4	32.3	3723 7456	0526 1835
H 5	18-24	15 4	1911	NIGHT	37	6.6-6.6	6.6	6.9	6.6	NONE	-	32.4-32.5	32.5	32.3	3723 7458	0526 1835
H 6	0-15	15 4	2210	NIGHT	80	6.2-6.8	6.5	6.8	6.2	NONE	-	32.4-32.7	32.5	32.6	3718 7440	0525 1834
H 6	18-33	15 4	2210	NIGHT	80	6.2-6.2	6.2	6.8	6.2	NONE	-	32.4-32.5	32.5	32.6	3718 7440	0525 1834
H 7	0-15	15 4	2320	NIGHT	129	5.0-5.6	5.4	5.6	5.2	NONE	-	32.1-32.4	32.2	32.3	3716 7434	0524 1833
H 7	18-33	15 4	2320	NIGHT	129	5.0-5.4	5.3	5.6	5.2	NONE	-	32.4-32.6	32.5	32.3	3716 7434	0524 1833
J 1	0-6	19 4	1132	DAY	16	10.9-11.5	11.2	11.5	9.9	GRADUAL	-	23.6-27.9	25.8	23.5	3655 7558	0521 1838
J 2	0-6	19 4	1216	DAY	13	9.4-10.8	10.0	10.8	9.4	GRADUAL	-	26.4-30.8	29.0	26.4	3655 7552	0524 1841
J 3	0-6	16 4	0925	DAY	19	8.5-8.5	8.9	8.9	8.5	GRADUAL	-	31.6-31.8	31.8	31.8	3654 7545	0528 1838
J 4	0-6	16 4	0717	DAY	27	8.0-8.0	8.0	8.0	7.8	NONE	-	31.7-31.8	31.7	31.7	3653 7533	0527 1837
J 5	0-15	16 4	0545	DAY	30	7.7-7.9	7.8	7.9	7.7	NONE	-	31.8-32.1	32.0	31.8	3652 7521	0526 1836
J 6	0-15	16 4	0406	NIGHT	58	7.0-7.4	7.3	7.4	6.9	NONE	-	32.0-32.6	32.3	32.0	3650 7502	0525 1835
J 6	18-24	16 4	0406	NIGHT	58	6.9-6.9	6.9	7.4	6.9	NONE	-	32.4-32.5	32.5	32.0	3650 7502	0525 1835
J 7	0-15	16 4	0212	NIGHT	92	6.7-6.8	6.7	6.8	6.4	NONE	-	32.3-32.5	32.4	32.4	3648 7444	0524 1834
J 7	18-33	16 4	0212	NIGHT	92	6.4-6.6	6.5	6.8	6.4	NONE	-	32.5-32.7	32.6	32.4	3648 7444	0524 1834
K 1	0-6	19 4	1528	DAY	17	10.3-10.4	10.4	10.3	10.4	NONE	-	31.0-31.4	31.2	31.0	3623 7548	0525 1840
K 2	0-15	19 4	1617	DAY	24	8.5-10.4	9.7	10.4	8.9	GRADUAL	-	30.2-31.4	30.7	30.3	3623 7542	0525 1840
K 3	0-15	19 4	1715	DAY	26	8.8-11.2	9.6	11.2	8.1	GRADUAL	-	30.2-31.6	31.1	30.2	3622 7536	0524 1839
K 4	0-15	19 4	1823	DUSK	32	7.6-8.9	8.2	8.9	7.5	GRADUAL	-	31.6-32.3	32.2	31.9	3622 7522	0524 1839
K 5	0-15	19 4	1953	NIGHT	37	8.1-8.8	8.5	8.8	7.7	GRADUAL	-	32.5-32.7	32.6	32.5	3622 7511	0523 1838
K 5	18-24	19 4	1953	NIGHT	37	7.7-7.9	7.8	8.8	7.7	GRADUAL	-	32.7-32.8	32.8	32.5	3622 7511	0523 1838
K 6	0-15	19 4	2115	NIGHT	43	7.4-8.3	7.9	8.3	7.3	NONE	-	32.6-32.8	32.7	32.6	3621 7456	0522 1837
K 6	18-33	19 4	2115	NIGHT	43	7.3-7.3	7.3	8.3	7.3	NONE	-	32.8-33.0	32.9	32.6	3621 7458	0522 1837
K 7	0-15	19 4	2243	NIGHT	681	6.3-7.3	7.0	7.3	6.2	NONE	-	32.5-32.8	32.7	32.5	3621 7446	0521 1836
K 7	18-33	19 4	2243	NIGHT	681	5.5-6.2	6.1	7.3	6.2	NONE	-	32.8-32.9	32.9	32.5	3621 7446	0521 1836
L 1	0-6	20 4	0625	DAY	17	9.6-10.7	10.1	10.7	9.2	NONE	-	30.3-30.7	30.4	30.2	3546 7530	0523 1840
L 2	0-6	20 4	0541	DAY	26	9.4-10.5	9.9	10.5	8.6	GRADUAL	-	30.2-31.0	30.5	30.2	3546 7524	0522 1840
L 3	0-15	20 4	0448	NIGHT	32	8.3-10.8	9.0	10.8	8.2	GRADUAL	-	30.6-32.2	31.8	30.5	3546 7517	0522 1839
L 3	18-24	20 4	0448	NIGHT	32	8.2-8.2	8.2	10.8	8.2	GRADUAL	-	32.0-32.2	32.1	30.5	3546 7517	0522 1839
L 4	0-15	20 4	0331	NIGHT	42	8.6-9.6	9.2	9.6	8.2	GRADUAL	-	32.3-32.4	32.3	32.2	3545 7505	0521 1838
L 4	18-33	20 4	0331	NIGHT	42	8.3-8.5	8.3	9.6	8.2	GRADUAL	-	32.3-32.3	32.3	32.2	3545 7505	0521 1838
L 5	0-15	20 4	0209	NIGHT	192	8.4-9.2	8.7	9.2	6.6	NONE	-	32.1-32.4	32.2	32.3	3545 7452	0520 1837
L 5	18-33	20 4	0209	NIGHT	192	8.3-8.4	8.4	9.2	6.6	NONE	-	32.1-32.2	32.2	32.3	3545 7452	0520 1837
M 1	0-6	20 4	1001	DAY	16	11.2-11.6	11.5	11.6	11.0	NONE	-	30.1-30.6	30.3	30.0	3518 7529	0524 1839
M 2	0-6	20 4	1053	DAY	20	11.1-12.3	11.7	12.3	9.8	GRADUAL	-	29.9-30.3	30.1	29.9	3516 7522	0524 1839
M 3	0-6	20 4	1148	DAY	25	10.6-11.5	11.1	11.9	18.4	STRONG	8-18	30.3-30.5	30.3	30.2	3514 7518	0523 1838
M 4	0-15	20 4	1245	DAY	62	12.4-15.2	13.7	12.4	18.6	STRONG	13-20	30.7-32.2	31.6	30.6	3512 7512	0523 1838
M 4	18-33	20 4	1245	DAY	62	17.1-18.6	18.4	12.4	18.6	STRONG	13-20	33.1-34.5	34.4	30.6	3512 7512	0523 1838
M 5	0-15	20 4	1346	DAY	215	13.3-15.2	15.8	13.3	18.0	STRONG	0-15	31.5-35.4	33.6	31.5	3510 7507	0522 1837
M 5	18-33	20 4	1346	DAY	215	18.5-19.5	19.3	13.3	18.0	STRONG	0-15	35.4-35.6	35.5	31.5	3510 7507	0522 1837
N 1	0-15	20 4	1753	DAY	21	10.7-12.2	10.9	12.2	10.7	WEAK	0-4	32.2-32.6	32.4	32.5	3501 7557	0522 1837
N 2	0-6	20 4	1851	NIGHT	22	11.7-11.8	11.8	11.8	11.9	-	-	32.1-32.1	32.1	32.0	3456 7555	0522 1837
N 3	0-15	20 4	1948	NIGHT	29	9.5-12.5	11.3	12.2	9.9	STRONG	6-10	31.7-32.2	32.0	31.7	3451 7552	0525 1839
N 3	18-24	20 4	1948	NIGHT	29	9.5-10.0	10.0	12.2	9.9	STRONG	6-10	32.1-33.9	32.7	31.7	3451 7552	0525 1839
N 4	0-15	20 4	2125	NIGHT	49	20.5-21.0	21.0	21.0	18.5	GRADUAL	-	35.5-35.6	35.6	35.6	3442 7548	0525 1839
N 4	18-33	20 4	2125	NIGHT	49	18.5-20.8	19.9	21.0	18.5	GRADUAL	-	35.6-35.8	35.7	35.6	3442 7548	0525 1839
N 5	0-15	20 4	2316	NIGHT	235	23.5-23.5	23.5	23.5	19.5	GRADUAL	-	35.5-35.5	35.5	35.4	3433 7544	0526 1839
N 5	18-33	20 4	2316	NIGHT	235	23.1-23.5	23.4	23.5	19.5	GRADUAL	-	35.5-35.6	35.6	35.4	3433 7544	0526 1839
P 1	0-6	21 4	0956	DAY	18	15.5-17.4	16.6	17.4	15.3	GRADUAL	-	32.1-32.8	32.4	32.7	3438 7540	0528 1844
P 2	0-6	21 4	0906	DAY	18	15.5-16.4	16.0	16.4	14.6	GRADUAL	-	32.1-33.3	33.2	33.0	3434 7637	0527 1843
P 3	0-6	21 4	0815	DAY	18	15.5-16.2	15.9	16.2	14.6	WEAK	3-10	32.8-33.8	33.4	32.8	3429 7533	0528 1843
P 4	0-15	21 4	0625	DAY	34	15.3-15.9	15.7	15.9	17.0	-	-	33.3-34.5	33.7	33.3	3417 7623	0528 1842
P 4	18-24	21 4	0625	DAY	34	16.3-16.9	16.7	15.9	17.0	-	-	34.8-35.0	34.9	33.3	3417 7623	0528 1842
P 5	0-15	21 4	0427	NIGHT	74	24.9-25.0	25.0	24.9	21.1	GRADUAL	-	35.4-35.5	35.5	35.4	3404 7513	0527 1841
P 5	18-33	21 4	0427	NIGHT	74	25.0-25.1	25.1	24.9	21.1	GRADUAL	-	35.4-35.6	35.5	35.4	3404 7612	0527 1841

TABLE 2. (continued)

CRUISE NO.	TOW DEPTH (M)	DATE 1966 D M	TOW FAST	LIGHT COND.	WATER DEPTH (M)	***** RANGE	TEMPERATURE MEAN SURF.	(C) SURF.	***** BOT.	THERMOCLINE DEGREE	DEPTH (M)	**** RANGE	SALINITY (10/CO) MEAN	**** SURF.	POSITION LAT. LONG.	** SUN ** RISE SET
A 1	0-6	12 5	2002	NIGHT	19	7.8-7.8	7.8	7.8	7.8	NONE	-	32.5-32.6	32.6	32.5	4117 7048	0428 1851
A 2	0-15	12 5	2109	NIGHT	33	7.3-7.4	7.3	7.4	7.2	NONE	-	32.4-32.6	32.5	32.5	4112 7047	0426 1851
A 7	18-24	12 5	2109	NIGHT	33	7.2-7.2	7.2	7.4	7.2	NONE	-	32.5-32.6	32.6	32.5	4112 7047	0428 1851
A 3	0-15	13 5	0008	NIGHT	37	7.2-7.2	7.2	7.2	6.6	NONE	-	31.9-32.4	32.3	31.6	4107 7046	0427 1852
A 3	18-33	13 5	0008	NIGHT	37	6.6-7.2	6.8	7.2	6.6	NONE	-	32.2-32.4	32.3	31.8	4107 7046	0427 1852
A 4	0-15	13 5	0153	NIGHT	54	6.3-6.3	6.3	6.3	4.9	NONE	-	32.2-32.5	32.3	32.4	4057 7044	0428 1851
A 4	18-33	13 5	0153	NIGHT	54	5.6-6.3	6.0	6.3	4.9	NONE	-	32.4-32.5	32.4	32.4	4057 7044	0428 1851
A 5	0-15	13 5	0325	NIGHT	62	6.3-6.3	6.3	6.3	4.6	STRONG	35-36	32.2-32.6	32.5	32.2	4047 7042	0428 1851
A 5	18-33	13 5	0325	NIGHT	62	5.5-6.2	6.1	6.3	4.6	STRONG	35-36	32.2-32.7	32.6	32.2	4047 7042	0428 1851
A 6	0-15	13 5	0534	DAY	76	6.5-6.5	6.5	6.5	4.3	WEAK	35-42	32.2-33.3	32.9	33.1	4032 7040	0429 1850
A 6	18-33	13 5	0534	DAY	76	6.0-6.4	6.2	6.5	4.3	WEAK	35-42	32.0-33.3	33.2	33.1	4032 7040	0425 1850
A 7	0-15	13 5	0806	DAY	114	6.2-6.3	6.3	6.3	7.0	-	-	33.0-33.1	33.1	33.1	4017 7037	0426 1849
A 7	18-33	13 5	0806	DAY	114	5.8-6.2	6.1	6.3	7.0	-	-	33.1-33.1	33.1	33.1	4017 7037	0428 1849
P 1	0-9	13 5	2133	NIGHT	22	7.1-8.3	6.0	8.3	7.2	GRADUAL	-	30.2-31.2	30.6	30.1	4103 7151	0431 1856
P 2	0-15	13 5	2039	NIGHT	34	7.1-7.7	7.5	7.7	5.0	GRADUAL	-	31.3-31.9	31.7	31.3	4058 7149	0432 1855
P 3	0-15	13 5	1936	NIGHT	52	7.5-7.5	7.5	7.5	4.9	WEAK	17-23	31.7-32.0	31.8	31.7	4054 7147	0432 1855
P 3	18-33	13 5	1936	NIGHT	52	4.8-6.8	5.5	7.5	4.9	WEAK	17-23	32.2-33.0	32.7	31.7	4054 7147	0432 1855
P 4	0-15	13 5	1812	DAY	65	7.2-7.6	7.5	7.6	4.2	GRADUAL	-	32.1-33.0	32.4	32.1	4044 7144	0432 1855
P 4	18-33	13 5	1812	DAY	65	6.2-6.5	6.5	7.6	4.2	GRADUAL	-	32.5-33.3	33.1	32.1	4044 7144	0432 1855
P 5	0-15	13 5	1641	DAY	72	6.6-7.6	7.4	7.6	4.1	WEAK	12-15	32.6-33.3	32.9	32.6	4034 7140	0433 1854
P 5	18-33	13 5	1641	DAY	72	6.2-6.4	6.3	7.6	4.1	WEAK	12-15	33.4-33.5	33.4	32.6	4034 7140	0433 1854
P 6	0-15	13 5	1453	DAY	86	6.7-7.0	6.9	7.0	3.7	GRADUAL	-	32.5-32.8	32.6	32.6	4020 7135	0432 1853
P 6	18-33	13 5	1453	DAY	86	5.6-6.6	6.4	7.0	3.7	GRADUAL	-	32.5-33.0	32.7	32.6	4020 7135	0432 1853
P 7	0-15	13 5	1237	DAY	98	6.5-6.6	6.6	6.6	6.9	GRADUAL	-	32.5-32.7	32.6	32.5	4005 7129	0433 1852
P 7	18-33	13 5	1237	DAY	98	6.2-6.4	6.3	6.6	6.9	GRADUAL	-	32.6-32.7	32.6	32.5	4005 7129	0433 1852
C 1	0-15	14 5	2124	NIGHT	21	8.0-8.8	8.7	8.8	8.0	WEAK	12-14	30.9-31.8	31.3	30.9	4035 7317	0438 1901
C 2	0-15	14 5	2030	NIGHT	30	8.3-8.7	8.6	8.7	7.4	WEAK	17-20	31.1-31.7	31.5	31.4	4031 7314	0438 1901
C 3	0-15	14 5	1935	NIGHT	25	7.5-6.4	6.2	6.4	7.4	NONE	-	32.0-32.1	32.0	32.1	4027 7310	0438 1901
C 3	18-24	14 5	1935	NIGHT	35	7.9-7.9	7.9	8.4	7.4	NONE	-	32.2-32.3	32.3	32.1	4027 7310	0438 1901
C 4	0-15	14 5	1807	DAY	36	7.3-7.9	7.7	7.9	6.4	NONE	-	32.3-32.4	32.4	32.3	4019 7302	0441 1904
C 4	18-33	14 5	1807	DAY	36	6.6-7.4	7.2	7.9	6.4	NONE	-	32.4-32.6	32.4	32.3	4019 7303	0441 1904
C 5	0-15	14 5	1675	DAY	51	7.6-7.8	7.7	7.8	6.4	NONE	-	32.6-32.7	32.7	32.7	4010 7255	0438 1859
C 5	18-33	14 5	1675	DAY	51	6.4-7.6	6.9	7.8	6.4	NONE	-	32.8-32.9	32.8	32.7	4010 7255	0438 1859
C 6	0-15	14 5	1342	DAY	59	7.4-7.5	7.4	7.5	5.1	WEAK	35-45	32.7-32.7	32.6	32.6	3558 7244	0437 1858
C 6	18-33	14 5	1342	DAY	59	6.5-7.4	7.2	7.5	5.1	WEAK	35-45	32.1-32.2	32.2	32.6	3558 7244	0437 1858
C 7	0-15	14 5	1218	DAY	68	7.1-7.2	7.1	7.2	4.1	WEAK	28-44	32.1-32.5	32.4	32.1	3946 7233	0437 1856
C 7	18-33	14 5	1218	DAY	68	5.7-7.0	6.5	7.2	4.1	WEAK	28-44	32.2-32.4	32.3	32.1	3546 7232	0437 1856
C 8	0-15	14 5	0615	DAY	400	6.8-7.3	7.1	7.3	8.3	-	-	33.2-33.3	33.2	33.1	3934 7222	0437 1856
C 8	18-33	14 5	0615	DAY	400	6.3-7.0	6.7	7.3	8.3	-	-	33.4-33.8	33.5	33.1	3534 7222	0437 1856
D 1	0-6	16 5	1905	DUSK	19	10.4-10.8	10.7	10.8	8.4	GRADUAL	-	30.6-31.6	31.1	30.5	3951 7404	0444 1909
D 2	0-6	16 5	2003	NIGHT	23	9.8-9.8	9.8	9.8	9.8	NONE	-	31.5-31.7	31.6	31.5	3548 7359	0440 1504
D 3	0-15	16 5	2058	NIGHT	26	8.7-9.2	9.0	9.2	7.7	WEAK	20-23	31.5-31.7	31.7	31.7	3945 7354	0441 1904
D 4	0-15	16 5	2223	NIGHT	33	8.5-8.9	8.8	8.9	7.3	WEAK	13-18	31.6-31.9	31.8	31.8	3539 7343	0440 1903
D 5	0-15	16 5	2332	NIGHT	40	8.4-8.7	8.6	8.7	7.8	NONE	-	31.5-32.4	32.1	32.1	3932 7332	0435 1502
D 5	18-24	16 5	2332	NIGHT	40	7.8-8.0	7.8	8.7	7.8	NONE	-	31.3-31.7	31.6	32.1	3532 7333	0439 1902
D 6	0-15	17 5	0155	NIGHT	54	8.0-8.1	8.0	8.1	6.8	NONE	-	30.3-30.9	30.6	30.9	3923 7315	0436 1901
D 6	18-33	17 5	0155	NIGHT	54	7.4-7.8	7.5	8.1	6.8	NONE	-	30.0-30.3	30.2	30.9	3923 7319	0438 1901
D 7	0-15	17 5	0356	NIGHT	74	6.3-6.3	6.3	6.3	4.9	GRADUAL	-	29.1-30.2	29.5	30.2	3514 7302	0441 1904
D 7	18-33	17 5	0356	NIGHT	74	5.5-6.2	6.0	6.3	4.9	GRADUAL	-	28.6-28.9	28.8	30.2	3914 7303	0441 1904
D 8	0-15	17 5	0908	DAY	113	7.1-7.1	7.1	7.1	5.1	WEAK	25-34	32.3-32.7	32.5	32.3	3906 7250	0436 1859
D 8	18-33	17 5	0908	DAY	113	5.6-7.1	6.5	7.1	5.1	WEAK	25-34	30.0-31.8	30.8	32.3	3906 7250	0436 1859
E 1	0-6	18 5	0414	DAWN	15	11.8-11.8	11.8	11.8	11.8	NONE	-	29.1-29.3	29.3	29.3	3517 7431	0442 1907
E 2	0-6	18 5	0314	NIGHT	21	10.0-10.0	10.0	10.0	10.0	NONE	-	28.3-28.6	28.5	28.3	3914 7425	0442 1907
E 3	0-15	18 5	0210	NIGHT	20	9.4-9.5	9.5	9.5	9.3	NONE	-	29.2-30.4	29.5	30.3	3911 7420	0441 1906
E 4	0-15	17 5	2255	NIGHT	34	8.5-9.2	9.1	9.2	8.8	NONE	-	30.9-31.9	31.6	31.8	3905 7405	0442 1905
E 4	18-24	17 5	2255	NIGHT	34	8.8-8.8	8.8	9.2	8.8	NONE	-	29.1-30.1	29.5	31.8	3905 7409	0442 1905
E 5	0-15	17 5	2153	NIGHT	37	8.8-9.1	9.0	9.1	8.4	NONE	-	32.6-32.7	32.6	32.6	3859 7355	0442 1903
E 5	18-24	17 5	2153	NIGHT	37	8.4-8.6	8.4	9.1	8.4	NONE	-	31.7-32.2	31.8	32.6	3859 7359	0442 1903
E 6	0-15	17 5	1839	DUSK	34	8.3-8.8	8.5	8.8	7.5	NONE	-	31.3-32.8	32.4	32.7	3854 7349	0441 1902
E 6	18-24	17 5	1839	DUSK	34	7.6-8.0	7.8	8.8	7.5	NONE	-	31.0-31.6	31.4	32.7	3854 7349	0441 1902
E 7	0-15	17 5	1711	DAY	63	8.3-8.6	8.5	8.6	6.0	GRADUAL	-	32.4-32.8	32.7	32.7	3845 7333	0440 1901
E 7	18-33	17 5	1711	DAY	63	6.8-8.1	7.5	8.6	6.0	GRADUAL	-	31.1-32.2	31.6	32.7	3845 7333	0440 1901
E 8	0-15	17 5	1258	DAY	126	8.0-8.0	8.0	8.0	9.2	-	-	32.0-32.6	32.4	32.6	3836 7318	0440 1859
E 8	18-33	17 5	1258	DAY	126	8.2-8.4	8.4	8.0	9.2	-	-	30.4-31.5	30.9	32.6	3836 7318	0440 1859
F 1	0-6	18 5	1408	DAY	16	12.2-12.7	12.4	12.7	12.1	NONE	-	26.7-29.1	28.9	28.7	3846 7503	0445 1908
F 2	0-6	18 5	1456	DAY	18	11.9-12.2	12.0	12.2	11.8	NONE	-	25.7-29.9	29.8	29.7	3843 7458	0446 1507
F 3	0-15	18 5	1605	DAY	25	10.7-12.2	11.4	12.2	10.0	GRADUAL	-	25.8-30.5	30.1	30.5	3840 7452	0445 1906
F 3	18-24	18 5	1605	DAY	29	10.2-10.6	10.5	12.2	10.0	GRADUAL	-	29.4-29.7	29.6	30.5	3840 7452	0445 1906
F 4	0-15	18 5	1710	DAY	20	9.6-10.8	10.0	10.8	9.6	WEAK	4-8	31.5-32.2	32.0	32.1	3835 7441	0445 1506
F 5	0-15	18 5	2024	NIGHT	38	9.1-10.4	9.9	10.4	7.8	GRADUAL	-	31.6-32.3	32.0	32.3	3829 7430	0444 1905
F 5	18-33	18 5	2024	NIGHT	38	7.8-8.9	8.2	10.4	7.8	GRADUAL	-	30.5-31.2	30.7	32.3	3829 7430	0444 1905
F 6	0-15	18 5	2150	NIGHT	49	8.6-10.0	9.0	10.0	6.8	WEAK	24-29	30.3-32.0	30.8	31.9	3821 7413	0444 1903
F 6	18-33	18 5	2150	NIGHT	49	6.8-8.5	7.8	10.0	6.8	WEAK	24-25	29.1-30.2	29.8	31.9	3821 7413	0444 1903
F 7	0-15	19 5	0130	NIGHT	73	7.2-8.2	7.9	8.2	5.2	GRADUAL	-	30.1-30.9	30.4	30.0	3813 7357	0442 1903
F 7	18-33	19 5	0130	NIGHT	73	6.0-7.0	6.5	8.2	5.							

TABLE 2. (continued)

CRLSF 06605 STA.	TOW DEPTH (M)	DATE 1966 O M	TOW START HST	LIGHT COND.	WATER DEPTH (M)	***** RANGE	TEMPERATURE MEAN SURF.	(C) BOT.	***** THERMOCLINE DEGREE	DEPTH (M)	**** SALINITY (0/00) RANGE	**** PEAK SURF.	***** POSITION LAT. LONG.	** SUN ** RISE SET	
G 5	18-33	19 5	0845	DAY	52	7.1- 8.5	7.5	9.7	7.1	GRADUAL	-	29.7-30.2	30.0	32.5	3750 7438 0446 1905
G 6	0-15	19 5	0502	DAY	90	7.3- 8.4	8.0	8.4	5.2	GRADUAL	-	32.3-32.6	32.4	32.4	3742 7422 0445 1904
E 6	18-33	19 5	0502	DAY	90	5.3- 6.8	5.8	8.4	5.2	GRADUAL	-	30.4-31.6	30.9	32.4	3742 7422 0445 1904
H 1	0- 3	19 5	2036	NIGHT	13	14.6-15.0	14.8	15.0	12.7	STRONG	4- 6	31.3-31.4	31.4	31.4	3734 7533 0450 1907
H 2	0-15	19 5	1945	NIGHT	25	11.4-12.4	12.8	13.4	11.4	WEAK	6-14	31.4-31.8	31.6	31.4	3732 7528 0450 1907
H 3	0-15	19 5	1853	DUSK	25	10.2-11.9	11.1	11.9	10.2	GRADUAL	-	31.5-31.9	31.8	31.5	3730 7522 0449 1906
H 4	0-15	20 5	0307	NIGHT	26	10.6-10.9	10.6	10.9	9.8	GRADUAL	-	31.3-31.6	31.4	31.3	3727 7510 0446 1907
H 5	0-15	20 5	0427	DAWN	32	8.7-10.8	10.1	10.8	8.4	WEAK	6- 9	32.2-32.5	32.4	32.1	3723 7458 0447 1906
H 5	18-24	20 5	0427	DAWN	32	8.7- 8.7	8.7	10.8	8.4	WEAK	6- 9	32.5-32.6	32.6	32.1	3723 7456 0447 1906
H 6	0-15	20 5	0856	DAY	77	7.7- 9.7	8.6	9.7	5.6	GRADUAL	-	32.6-32.8	32.7	32.7	3718 7440 0447 1904
H 6	18-33	20 5	0856	DAY	77	5.9- 7.5	6.5	9.7	5.6	GRADUAL	-	32.4-32.8	32.6	32.7	3718 7440 0447 1904
H 7	0-15	20 5	0947	DAY	55	8.5- 9.4	9.3	9.4	6.1	GRADUAL	-	32.7-32.9	32.8	32.9	3716 7434 0446 1903
H 7	18-33	20 5	0947	DAY	95	7.0- 8.4	7.5	9.4	6.1	GRADUAL	-	32.5-32.8	32.6	32.9	3716 7434 0446 1903
J 1	0- 6	21 5	0415	NIGHT	14	13.6-14.7	13.7	14.7	13.0	STRONG	3- 4	28.4-28.7	28.6	28.3	3655 7558 0448 1905
J 2	0- 6	21 5	0505	DAY	14	13.7-15.2	14.3	15.2	13.5	WEAK	3- 4	28.4-31.2	30.0	28.4	3655 7552 0451 1908
J 3	0- 6	21 5	0547	DAY	15	13.6-16.9	15.3	16.9	13.0	STRONG	1- 5	25.9-30.7	28.6	25.9	3654 7545 0451 1908
J 4	0-15	20 5	0117	NIGHT	23	10.1-16.7	13.3	16.7	10.1	WEAK	2-11	25.8-32.2	31.5	29.8	3653 7533 0451 1906
J 5	0-15	20 5	0620	NIGHT	21	9.8-13.1	11.3	13.1	8.6	GRADUAL	-	31.9-32.4	32.1	31.9	3652 7521 0450 1905
J 6	0-15	20 5	1646	DAY	36	8.7-10.7	9.8	10.7	8.3	GRADUAL	-	32.4-32.6	32.5	32.4	3650 7502 0446 1904
J 6	18-33	20 5	1646	DAY	36	8.3- 8.6	8.4	10.7	8.3	GRADUAL	-	32.4-32.7	32.6	32.4	3650 7502 0446 1904
J 7	0-15	20 5	1513	DAY	79	9.2-10.4	9.7	10.4	6.4	GRADUAL	-	32.3-32.6	32.5	32.4	3648 7444 0446 1903
J 7	18-33	20 5	1513	DAY	79	7.1- 9.1	8.1	10.4	6.4	GRADUAL	-	32.2-32.3	32.2	32.4	3648 7444 0448 1903
K 1	0- 6	21 5	0115	NIGHT	18	12.6-16.3	14.4	16.3	11.8	STRONG	1- 6	25.7-30.4	30.1	29.7	3623 7548 0452 1907
K 2	0- 6	21 5	0302	NIGHT	15	14.7-15.6	15.3	15.6	11.7	WEAK	5-12	28.8-30.0	29.5	28.8	3623 7542 0452 1907
K 3	0-15	21 5	1940	NIGHT	20	10.4-14.9	13.3	14.9	10.2	STRONG	6-13	29.9-31.4	30.6	29.8	3622 7536 0451 1906
K 4	0-15	22 5	0323	NIGHT	33	9.3-14.9	12.2	14.9	9.0	STRONG	3- 6	30.2-31.7	31.1	30.2	3622 7523 0450 1907
K 4	18-24	22 5	0323	NIGHT	33	9.0- 9.1	9.0	14.9	9.0	STRONG	3- 6	31.7-31.8	31.7	30.2	3622 7523 0450 1907
K 5	0-15	22 5	0433	DAWN	34	9.4-14.4	11.8	14.4	8.4	STRONG	5-10	30.6-31.7	31.3	30.6	3622 7511 0449 1906
K 5	18-24	22 5	0433	DAWN	34	8.5- 9.1	8.8	14.4	8.4	STRONG	5-10	31.7-31.7	31.7	30.6	3622 7511 0449 1906
K 6	0-15	22 5	0821	DAY	47	8.2-12.3	11.4	12.3	7.5	WEAK	5-11	31.2-31.8	31.5	31.2	3621 7456 0445 1905
K 6	18-33	22 5	0821	DAY	47	7.6- 8.1	7.8	12.3	7.5	WEAK	5-11	31.5-31.7	31.6	31.2	3621 7458 0449 1905
K 7	0-15	22 5	1027	DAY	594	9.2-10.7	10.2	10.7	6.5	GRADUAL	-	31.2-31.7	31.4	31.3	3621 7446 0448 1904
K 7	18-33	22 5	1027	DAY	594	7.2- 8.9	8.1	10.7	6.5	GRADUAL	-	31.4-31.7	31.6	31.3	3621 7446 0448 1904
L 1	0- 6	22 5	0343	NIGHT	13	12.7-14.7	13.7	14.7	11.0	WEAK	1- 7	28.9-30.2	29.6	28.9	3546 7530 0452 1905
L 2	0- 6	23 5	0041	NIGHT	23	14.2-14.6	14.6	14.6	10.8	WEAK	5-10	29.6-29.8	29.7	29.8	3546 7524 0451 1906
L 3	0-15	23 5	0139	NIGHT	37	12.3-14.6	14.0	14.6	10.3	WEAK	7-10	29.7-30.4	30.0	29.7	3546 7517 0450 1905
L 3	18-33	23 5	0139	NIGHT	37	10.2-11.6	10.7	14.6	10.3	WEAK	7-10	30.7-31.2	31.0	29.7	3546 7517 0450 1905
L 4	0-15	22 5	1648	DAY	43	11.1-14.3	12.8	14.3	8.9	STRONG	5- 7	30.4-30.8	30.6	30.5	3545 7505 0450 1903
L 4	18-33	22 5	1648	DAY	43	9.6-10.8	9.8	14.3	8.9	STRONG	5- 7	31.0-31.4	31.3	30.5	3545 7505 0450 1903
L 5	0-15	22 5	1541	DAY	70	10.7-14.7	12.0	14.7	10.2	-	-	30.2-31.5	30.9	30.1	3545 7452 0449 1902
L 5	18-33	22 5	1541	DAY	70	10.2-10.6	10.5	14.7	10.2	-	-	31.5-31.6	31.5	30.1	3545 7452 0449 1902
M 1	0- 6	23 5	1038	DAY	14	15.6-15.6	15.0	15.0	14.8	NONE	-	30.6-30.6	30.2	30.0	3518 7529 0452 1905
M 2	0- 6	23 5	0929	DAY	25	17.6-17.7	17.7	17.7	16.9	NONE	-	32.6-32.7	32.7	32.7	3516 7523 0452 1905
M 3	0- 6	23 5	0829	DAY	21	19.7-19.7	19.7	19.7	21.3	NONE	-	33.8-33.9	33.8	33.8	3514 7518 0452 1904
M 4	0-15	23 5	16 4	DAY	38	21.6-22.4	22.1	22.4	21.5	NONE	-	34.8-35.4	35.0	35.2	3512 7512 0452 1904
M 4	18-24	23 5	1604	DAY	38	21.6-21.5	21.5	22.4	21.5	NONE	-	35.2-35.4	35.3	35.2	3512 7512 0452 1904
M 5	0-15	23 5	1719	DAY	160	22.9-22.9	22.9	22.9	17.1	GRADUAL	-	35.3-35.5	35.4	35.4	3510 7507 0451 1903
M 5	18-33	23 5	1719	DAY	160	22.5-22.9	22.7	22.9	17.1	GRADUAL	-	35.4-35.5	35.5	35.4	3510 7507 0451 1903
N 1	0-15	24 5	0059	NIGHT	26	19.1-19.1	19.1	19.1	19.1	NONE	-	33.0-33.6	33.2	33.3	3501 7557 0451 1903
N 2	0-15	24 5	0154	NIGHT	25	19.5-20.0	19.6	19.5	20.0	NONE	-	33.1-34.7	33.4	33.1	3456 7555 0451 1903
N 3	0-15	24 5	0255	NIGHT	31	20.4-20.6	20.5	20.4	20.7	NONE	-	33.7-35.1	34.0	33.9	3451 7552 0454 1906
N 3	18-24	24 5	0255	NIGHT	31	20.7-20.7	20.7	20.4	20.7	NONE	-	34.9-35.1	35.0	33.9	3451 7552 0454 1906
N 4	0-15	24 5	0430	DAWN	46	23.4-23.4	23.4	23.4	20.9	WEAK	26-32	35.2-35.3	35.3	35.1	3442 7548 0454 1905
N 4	18-33	24 5	0430	DAWN	46	21.3-23.4	22.8	23.4	20.9	WEAK	26-32	35.3-35.9	35.6	35.1	3442 7548 0454 1905
N 5	0-15	25 5	0158	NIGHT	100	26.6-26.6	26.0	26.0	20.4	GRADUAL	-	35.3-35.7	35.5	35.7	3433 7544 0454 1906
N 5	18-33	25 5	0158	NIGHT	100	24.4-25.9	25.1	26.0	20.4	GRADUAL	-	35.4-35.6	35.6	35.7	3433 7544 0454 1906
P 1	0- 6	24 5	1524	DAY	17	20.2-20.5	20.4	20.5	18.9	NONE	-	33.4-33.5	33.4	33.4	3438 7540 0455 1909
P 2	0- 6	24 5	1615	DAY	18	19.1-19.9	19.5	19.9	18.6	NONE	-	33.2-33.8	33.6	33.2	3434 7537 0455 1908
P 3	0- 6	24 5	1726	DAY	16	19.6-15.8	19.8	19.8	19.8	NONE	-	33.5-33.8	33.7	33.5	3425 7630 0456 1908
P 4	0-15	24 5	1904	DUSK	27	20.7-20.8	20.8	20.8	21.1	NONE	-	34.7-35.0	34.9	34.6	3417 7623 0458 1907
P 4	18-24	24 5	1904	DUSK	27	20.7-20.8	20.7	20.8	21.1	NONE	-	35.2-35.4	35.3	34.6	3417 7623 0458 1907
P 5	0-15	24 5	2303	NIGHT	161	26.4-26.5	26.4	26.4	22.1	GRADUAL	-	35.5-35.7	35.6	35.6	3404 7613 0458 1906
P 5	18-33	24 5	2303	NIGHT	161	26.5-26.5	26.5	26.4	22.1	GRADUAL	-	35.5-35.7	35.6	35.6	3404 7613 0458 1906

TABLE 2. (continued)

29

CRUISE NO 607 STA.	TOW DEPTH (M)	DATE 1966 D M	TOW START HST	LIGHT COND.	WATER DEPTH (F)	***** RANGE	TEMPERATURE MEAN SURF.	(C) SURF.	***** BOT.	THERMOCLINE DEGREE	DEPTH (M)	**** RANGE	SALINITY 10/001 MEAN	**** SURF.	POSITION LAT. LONG.	** SUN ** RISE SET
A 1	0-6	17 6	0827	DAY	19	13.6-13.6	13.6	13.6	13.4	NONE	-	31.6-31.8	31.7	31.6	4117 7348	0405 1918
A 2	0-15	17 6	0927	DAY	33	10.8-13.9	13.3	13.9	8.9	STRONG	12-18	31.5-32.6	32.1	31.9	4112 7047	0410 1918
A 3	0-15	17 6	1037	DAY	38	9.6-14.1	12.0	14.1	8.1	WEAK	9-16	31.9-32.0	31.9	31.9	4107 7046	0410 1518
A 3	13-24	17 6	1037	DAY	38	8.5-9.1	8.7	14.1	8.1	WEAK	9-16	32.2-32.4	32.3	31.9	4107 7046	0410 1918
A 4	0-15	17 6	1222	DAY	52	10.6-14.5	13.8	14.5	6.2	STRONG	13-18	31.7-31.8	31.7	31.6	4057 7044	0410 1917
A 4	18-33	17 6	1222	DAY	52	6.2-8.6	6.8	14.5	6.2	STRONG	13-18	31.8-32.3	32.1	31.6	4057 7044	0410 1917
A 5	0-15	17 6	1633	DAY	62	10.6-15.0	14.1	15.0	5.4	STRONG	11-19	31.2-32.1	31.6	31.2	4047 7042	0411 1917
A 5	19-33	17 6	1633	DAY	62	5.8-6.1	6.2	15.0	5.4	STRONG	11-19	31.9-32.3	32.2	31.2	4047 7042	0411 1917
A 6	0-15	17 6	1819	DAY	74	13.6-14.1	13.9	14.1	5.2	STRONG	16-30	32.0-32.2	32.1	32.0	4032 7040	0412 1916
A 6	18-33	17 6	1819	DAY	74	5.8-12.3	8.1	14.1	5.2	STRONG	16-30	32.0-32.7	32.4	32.0	4032 7040	0412 1916
A 7	0-15	17 6	2243	NIGHT	110	10.6-14.1	12.7	14.1	9.3	GRADUAL	-	31.9-33.1	32.5	32.4	4017 7037	0411 1914
A 7	18-33	17 6	2243	NIGHT	110	5.6-9.9	7.6	14.1	9.3	GRADUAL	-	32.7-32.9	32.8	32.4	4017 7037	0411 1914
P 1	0-15	18 6	1632	DAY	24	13.8-14.4	14.0	14.4	14.1	NONE	-	29.5-30.4	30.3	29.9	4103 7151	0414 1922
P 2	0-15	18 6	1522	DAY	44	10.6-14.0	12.8	14.0	7.2	WEAK	6-12	30.4-31.0	30.8	30.3	4058 7149	0414 1922
P 2	18-24	18 6	1522	DAY	44	8.2-10.3	5.5	14.0	7.2	WEAK	6-12	31.0-31.5	31.2	30.3	4058 7149	0414 1922
P 3	0-15	18 6	1425	DAY	52	6.4-13.7	11.3	13.7	5.9	STRONG	10-14	30.3-31.6	31.0	30.6	4054 7147	0415 1921
P 3	18-33	18 6	1425	DAY	52	5.5-6.4	6.3	13.7	5.9	STRONG	10-14	31.7-32.1	31.9	30.6	4054 7147	0415 1921
P 4	0-15	18 6	1302	DAY	63	12.3-15.4	14.3	15.4	5.1	STRONG	12-20	31.2-31.6	31.4	31.2	4044 7144	0415 1921
P 4	18-33	18 6	1302	DAY	63	6.1-5.6	7.0	15.4	5.1	STRONG	12-20	31.7-32.2	32.0	31.2	4044 7144	0415 1921
P 5	0-15	18 6	0936	DAY	76	9.3-14.8	13.8	14.8	4.5	STRONG	10-15	30.6-31.7	30.9	30.6	4034 7140	0416 1920
P 5	18-33	18 6	0936	DAY	76	6.3-8.2	7.1	14.8	4.5	STRONG	10-15	31.7-32.0	31.8	30.6	4034 7140	0416 1920
P 6	0-15	18 6	0733	DAY	86	13.4-15.1	14.7	15.1	4.6	WEAK	13-27	31.3-32.1	31.5	31.3	4020 7135	0415 1919
P 6	18-33	18 6	0733	DAY	86	6.5-12.1	8.6	15.1	4.6	WEAK	13-27	32.1-32.4	32.3	31.3	4020 7135	0415 1919
P 7	0-15	18 6	0312	NIGHT	93	10.7-14.0	13.3	14.0	7.5	WEAK	10-33	31.7-32.1	31.9	31.8	4005 7125	0416 1917
P 7	18-33	18 6	0312	NIGHT	93	5.5-9.9	7.6	14.0	7.5	WEAK	10-33	32.1-32.7	32.4	31.8	4005 7125	0416 1917
C 1	0-15	19 6	0528	DAY	25	11.7-16.7	14.5	16.7	11.7	GRADUAL	-	30.7-31.1	30.9	30.6	4035 7317	0422 1927
C 2	0-15	19 6	0630	DAY	31	11.4-16.0	14.4	16.0	9.6	WEAK	9-16	30.1-31.5	30.5	30.8	4031 7314	0422 1926
C 2	18-27	19 6	0630	DAY	31	9.7-10.6	5.9	16.0	9.6	WEAK	9-16	31.5-31.7	31.6	30.8	4031 7314	0422 1926
C 3	0-15	19 6	0727	DAY	36	13.1-16.2	14.4	16.2	7.9	WEAK	14-22	31.0-31.4	31.2	31.1	4027 7310	0422 1926
C 3	18-33	19 6	0727	DAY	36	8.2-10.8	8.7	16.2	7.9	WEAK	14-22	31.1-31.9	31.6	31.1	4027 7310	0422 1926
C 4	0-15	19 6	0855	DAY	41	10.8-15.3	13.7	15.3	5.3	STRONG	12-18	30.1-31.2	30.6	30.6	4019 7303	0426 1929
C 4	18-24	19 6	0855	DAY	41	6.2-8.3	6.7	15.3	5.3	STRONG	12-18	31.7-32.0	31.9	30.6	4019 7303	0426 1929
C 5	0-15	19 6	1224	DAY	50	9.1-16.4	14.9	16.4	5.5	STRONG	10-14	30.2-31.1	30.5	30.4	4010 7255	0422 1924
C 5	18-33	19 6	1224	DAY	50	6.1-8.8	7.5	16.4	5.5	STRONG	10-14	31.2-31.9	31.6	30.4	4010 7255	0422 1924
C 6	0-15	19 6	1421	DAY	59	9.7-15.6	13.8	15.6	5.0	STRONG	10-17	30.6-31.1	30.8	30.6	3558 7244	0422 1922
C 6	18-33	19 6	1421	DAY	59	5.2-8.2	6.3	15.6	5.0	STRONG	10-17	31.3-32.1	31.8	30.6	3558 7244	0422 1922
C 7	0-15	19 6	1943	NIGHT	78	11.3-15.5	14.0	15.5	5.1	WEAK	15-20	31.0-32.0	31.4	31.3	3946 7233	0422 1921
C 7	18-33	19 6	1943	NIGHT	78	6.1-5.1	7.1	15.5	5.1	WEAK	15-20	32.3-32.8	32.6	31.3	3946 7233	0422 1921
C 8	0-15	19 6	2210	NIGHT	216	14.6-14.8	14.8	14.8	8.3	STRONG	15-30	31.6-31.7	31.7	31.6	3534 7222	0422 1920
C 8	18-33	19 6	2210	NIGHT	216	5.1-13.6	8.6	14.8	8.3	STRONG	15-30	31.8-32.8	32.4	31.6	3534 7222	0422 1920
D 1	0-6	20 5	1530	DAY	18	12.2-14.1	13.1	14.1	10.2	GRADUAL	-	31.7-31.8	31.8	30.5	3951 7404	0431 1932
D 2	0-6	20 5	1425	DAY	23	15.7-16.8	16.5	16.8	8.1	WEAK	8-16	31.4-31.8	31.6	29.5	3948 7355	0426 1927
D 3	0-15	20 5	1329	DAY	26	10.3-17.2	15.6	17.2	9.1	STRONG	11-17	30.6-31.3	30.8	30.7	3945 7354	0428 1927
D 4	0-15	20 5	1229	DAY	31	15.1-17.6	16.5	17.6	8.2	STRONG	14-20	30.3-30.9	30.7	30.6	3939 7343	0427 1926
D 4	18-24	20 5	1209	DAY	31	8.2-11.0	8.7	17.6	8.2	STRONG	14-20	31.4-31.8	31.7	30.6	3939 7343	0427 1926
D 5	0-15	20 5	1038	DAY	41	13.7-16.8	15.9	16.8	8.1	WEAK	11-21	30.2-31.2	30.5	30.2	3932 7333	0426 1925
D 5	18-33	20 5	1038	DAY	41	8.1-10.7	8.4	16.8	8.1	WEAK	11-21	31.4-32.1	31.8	30.2	3932 7333	0426 1925
D 6	0-15	20 5	0744	DAY	57	14.9-16.8	16.1	16.8	7.1	STRONG	14-20	30.6-31.2	30.9	25.5	3923 7319	0426 1923
D 6	18-33	20 5	0744	DAY	57	8.3-11.3	8.8	16.8	7.1	STRONG	14-20	31.5-32.2	31.9	25.5	3923 7319	0426 1923
D 7	0-15	20 5	0525	CAY	75	11.1-15.6	14.2	15.6	4.4	WEAK	8-25	30.5-31.5	31.2	30.9	3914 7303	0425 1926
D 7	18-33	20 5	0525	CAY	75	6.7-9.7	7.6	15.6	4.4	WEAK	8-25	31.6-32.1	31.9	30.5	3914 7303	0425 1926
D 8	0-15	20 5	0343	NIGHT	108	14.1-15.0	14.7	15.0	8.0	GRADUAL	-	31.6-32.1	31.8	31.5	3906 7250	0425 1920
D 8	18-33	20 5	0343	NIGHT	108	8.8-13.4	10.5	15.0	8.0	GRADUAL	-	32.1-32.6	32.3	31.5	3906 7250	0425 1920
E 1	0-3	29 6	0705	DAY	14	15.8-17.1	16.4	17.1	14.7	GRADUAL	-	32.0-32.1	32.0	31.9	3917 7431	0434 1929
E 2	0-6	29 6	0616	DAY	19	18.0-19.7	19.5	19.7	11.3	STRONG	4-11	31.8-31.9	31.8	31.8	3914 7425	0434 1929
E 3	0-6	29 6	0524	DAY	24	17.7-15.4	18.9	19.4	10.6	STRONG	4-12	31.7-31.7	31.7	31.6	3911 7420	0433 1927
E 4	0-15	29 6	0409	DAY	27	13.7-19.3	16.4	19.3	10.6	GRADUAL	-	31.5-31.9	31.7	31.5	3905 7409	0432 1927
E 5	0-15	29 6	0247	NIGHT	40	13.2-18.7	17.5	18.7	8.0	WEAK	8-20	31.2-31.9	31.6	31.8	3859 7355	0432 1926
E 5	18-33	29 6	0247	NIGHT	40	7.5-10.6	8.5	18.7	8.0	WEAK	8-20	31.8-32.3	32.2	31.8	3859 7355	0432 1926
E 6	0-15	29 6	0128	NIGHT	49	13.6-19.1	17.8	19.1	7.0	STRONG	9-23	31.6-31.8	31.7	31.6	3854 7349	0432 1925
E 6	18-33	29 6	0128	NIGHT	49	7.0-12.0	8.3	19.1	7.0	STRONG	9-23	31.4-32.3	31.9	31.6	3854 7349	0432 1925
E 7	0-15	28 5	2340	NIGHT	68	13.5-18.5	17.6	18.5	5.2	WEAK	10-33	31.6-31.5	31.8	31.8	3845 7333	0431 1923
E 7	18-33	28 5	2340	NIGHT	68	5.5-11.8	8.1	18.5	5.2	WEAK	10-33	31.9-32.2	32.0	31.8	3845 7333	0431 1923
E 8	0-15	28 5	2125	NIGHT	151	12.7-19.4	16.2	18.4	8.0	WEAK	8-28	32.2-33.2	32.6	32.2	3836 7318	0430 1922
E 8	18-33	28 5	2125	NIGHT	151	6.2-11.8	8.4	18.4	8.0	WEAK	8-28	32.2-33.4	32.2	32.2	3836 7318	0430 1922
F 1	0-6	28 6	0833	CAY	17	18.5-18.5	18.5	18.5	18.5	NONE	-	30.6-30.5	30.8	30.8	3846 7503	0437 1929
F 2	0-6	28 6	0917	CAY	24	18.5-18.7	18.6	18.7	14.9	GRADUAL	-	30.3-30.6	30.5	30.3	3843 7458	0437 1929
F 3	0-15	28 6	1002	CAY	27	14.0-15.9	17.5	15.9	13.3	WEAK	3-17	30.8-31.9	31.3	30.7	3840 7452	0436 1928
F 4	0-15	28 6	1122	CAY	23	12.2-19.3	16.9	19.3	12.2	STRONG	6-14	30.8-31.6	31.2	30.7	3835 7441	0436 1927
F 5	0-15	28 6	1245	CAY	39	14.0-15.8	17.3	19.8	8.2	WEAK	7-11	31.1-31.8	31.3	31.0	3829 7430	0436 1926
F 5	18-33	28 6	1245	CAY	39	8.2-12.4	5.8	15.8	8.2	WEAK	7-11	31.6-32.3	32.1	31.0	3829 7430	0436 1926
F 6	0-15	28 6	1424	CAY	58	12.4-19.9	16.0	19.9	6.2	WEAK	3-24	31.8-33.0	32.1	32.9	3821 7412	0435 1925
F 6																

TABLE 2. (continued)

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CRUISE STA.	TOW DEPTH (M)	DATE 1966 D M	TOW START HST	LIGHT COND.	WATER DEPTH (M)	***** RANGE	TEMPERATURE MEAN SURF.	(C) BOT.	***** DEGREE	THERMOCLINE DEPTH (M)	**** RANGE	SALINITY (10/100) MEAN	**** SURF.	POSITION LAT. LONG.	** SUN ** RISE SET
G 6	7-15	27 6	2153	NIGHT	88	14.7-18.4	17.0 18.4	6.2	WEAK	7-30	32.5-33.5	32.1	32.4	3742 7422	C43E 1924
G 6	19-33	27 6	2153	NIGHT	88	5.3-12.5	8.1 18.4	6.2	WEAK	7-30	32.9-33.5	33.1	32.4	3742 7422	C43E 1924
F 1	0-3	27 6	1613	DAY	17	19.8-21.7	20.8 21.7	17.1	WEAK	2-7	31.6-31.6	31.6	31.6	3734 7532	C44E 1927
H 2	0-6	27 6	1521	DAY	22	18.1-21.2	19.6 21.2	15.5	WEAK	2-11	30.3-31.0	30.7	30.3	3732 7528	C44E 1927
H 3	0-6	27 6	1434	DAY	24	18.8-21.5	20.3 21.5	15.3	WEAK	0-11	31.0-31.4	31.2	30.9	3730 7522	C44E 1926
H 4	0-15	27 6	1319	DAY	27	14.5-20.7	18.5 20.7	13.7	WEAK	5-15	31.1-31.4	31.3	31.3	3727 7510	C44E 1926
H 4	18-24	27 6	1319	DAY	27	13.7-14.0	13.9 20.7	13.7	WEAK	5-15	31.4-31.4	31.4	31.3	3727 7510	C44E 1926
F 5	0-15	27 6	1145	DAY	36	15.4-15.3	18.0 19.3	11.4	GRADUAL	-	31.6-31.7	31.7	31.7	3723 7458	C44E 1925
H 5	18-33	27 6	1145	DAY	36	11.5-14.6	12.8 19.3	11.4	GRADUAL	-	31.8-32.1	32.0	31.7	3723 7458	C44E 1925
H 6	0-15	27 6	0554	DAY	88	12.1-18.6	15.8 18.6	6.2	WEAK	0-30	32.1-32.0	32.2	32.1	3718 7440	C44E 1924
H 6	18-33	27 6	0805	DAY	88	6.1-16.3	7.8 18.6	6.2	WEAK	0-30	32.1-32.5	32.3	32.1	3718 7440	C44E 1924
H 7	0-15	27 6	0658	DAY	158	15.2-18.7	17.8 18.7	9.3	WEAK	11-31	32.6-32.8	32.7	32.6	3716 7434	C43E 1922
F 7	18-33	27 6	0658	DAY	158	8.2-13.6	10.3 18.7	9.3	WEAK	11-31	32.7-33.3	33.0	32.6	3716 7434	C43E 1922
J 1	0-6	26 6	1411	DAY	11	20.9-22.1	21.8 22.1	17.5	STRONG	4-10	24.7-25.4	24.8	24.6	3655 7558	C44E 1923
J 2	0-6	26 6	1504	DAY	13	17.2-20.6	18.8 20.6	16.0	WEAK	0-7	27.0-30.2	28.8	27.0	3655 7552	C44E 1926
J 3	0-6	26 6	1602	DAY	17	18.0-20.0	19.0 20.0	16.3	WEAK	1-7	30.1-30.6	30.4	30.1	3654 7545	C44E 1926
J 4	0-6	26 6	1721	DAY	21	19.4-19.5	19.8 19.8	12.6	GRADUAL	-	31.0-31.1	31.1	31.0	3653 7532	C44E 1925
J 5	0-15	26 6	2029	NIGHT	29	13.2-20.1	17.4 20.1	12.9	GRADUAL	-	31.4-31.8	31.6	31.7	3652 7521	C44E 1924
J 6	0-15	27 6	2229	NIGHT	36	15.2-18.5	16.9 18.5	11.6	GRADUAL	-	31.9-32.0	31.9	31.9	3650 7502	C44E 1923
J 6	18-24	27 6	2229	NIGHT	36	12.3-14.3	13.3 18.5	11.6	GRADUAL	-	31.9-32.1	32.0	31.9	3650 7502	C44E 1923
J 7	0-15	27 6	0216	NIGHT	82	12.1-18.6	14.8 18.6	5.9	GRADUAL	-	31.8-31.9	31.9	31.8	3648 7444	C44E 1922
J 7	18-33	27 6	0216	NIGHT	82	8.2-11.4	10.0 18.6	5.9	GRADUAL	-	32.0-32.3	32.1	31.8	3648 7444	C44E 1922
K 1	0-6	26 6	0532	DAY	16	20.6-22.0	21.6 22.0	17.0	STRONG	6-11	27.5-28.6	27.9	27.5	3623 7548	C44E 1925
K 2	0-15	26 6	0437	DAY	23	13.5-21.4	17.4 21.4	13.9	GRADUAL	-	28.9-31.7	30.7	28.9	3623 7542	C44E 1925
K 3	0-15	26 6	0345	NIGHT	27	15.1-20.8	18.1 20.8	14.9	WEAK	4-14	30.8-31.6	31.1	30.7	3622 7536	C44E 1924
K 4	0-15	26 6	0218	NIGHT	30	16.3-19.5	17.7 19.5	13.8	GRADUAL	-	31.4-31.6	31.5	31.4	3622 7523	C44E 1924
K 4	18-24	26 6	0218	NIGHT	30	13.9-15.2	14.4 19.5	13.8	GRADUAL	-	31.8-31.9	31.9	31.4	3622 7523	C44E 1924
K 5	0-15	25 6	2238	NIGHT	33	14.3-19.5	17.5 19.5	14.1	WEAK	6-14	31.2-32.0	31.8	31.2	3622 7511	C44E 1923
K 5	18-24	25 6	2238	NIGHT	33	14.1-14.2	14.1 19.5	14.1	WEAK	6-14	32.1-32.2	32.1	31.2	3622 7511	C44E 1923
K 6	0-15	25 6	2105	NIGHT	46	14.8-19.4	17.6 19.4	10.1	GRADUAL	-	32.1-32.7	32.5	32.0	3621 7458	C44E 1922
K 6	18-33	25 6	2105	NIGHT	46	11.8-14.3	13.2 19.4	10.1	GRADUAL	-	32.1-32.8	32.4	32.0	3621 7458	C44E 1922
K 7	0-15	25 6	1741	DAY	526	16.1-19.2	18.0 19.2	11.1	GRADUAL	-	32.0-32.6	32.4	31.9	3621 7446	C44E 1921
K 7	18-33	25 6	1741	DAY	526	10.7-15.4	13.1 19.2	11.1	GRADUAL	-	32.3-32.8	32.6	31.9	3621 7446	C44E 1921
L 1	0-6	23 6	0102	NIGHT	16	18.5-19.4	19.2 19.4	18.3	GRADUAL	-	29.2-29.4	29.2	29.2	3546 7530	C44E 1922
L 2	0-6	22 6	2325	NIGHT	38	18.5-18.7	18.6 18.7	18.1	NONE	-	31.5-31.7	31.6	31.5	3546 7524	C44E 1922
L 3	0-15	22 6	2144	NIGHT	38	15.5-16.7	16.0 16.7	15.6	NONE	-	32.0-32.8	32.3	32.0	3546 7517	C44E 1921
L 3	18-24	22 6	2144	NIGHT	38	15.3-15.4	15.3 16.7	15.6	NONE	-	32.8-32.8	32.8	32.0	3546 7517	C44E 1921
L 4	0-15	22 6	2028	NIGHT	51	14.7-17.8	16.0 17.8	12.5	GRADUAL	-	32.3-32.9	32.6	32.3	3545 7505	C44E 1920
L 4	18-33	22 6	2028	NIGHT	51	11.7-13.9	12.5 17.8	12.5	GRADUAL	-	32.2-33.3	32.8	32.3	3545 7505	C44E 1920
L 5	0-15	22 6	1903	DUSK	151	16.6-19.0	17.9 18.9	7.2	-	-	31.8-34.0	32.8	31.8	3545 7452	C44E 1919
L 5	18-33	22 6	1903	DUSK	151	14.6-19.6	17.6 18.9	7.2	-	-	34.2-34.5	34.4	31.8	3545 7452	C44E 1919
M 1	0-6	23 6	1706	DAY	15	19.6-19.7	19.7 19.6	19.7	NONE	-	30.1-30.6	30.3	30.6	3518 7525	C44E 1920
M 2	0-15	23 6	1805	DAY	21	19.8-22.1	20.3 19.8	22.1	GRADUAL	-	31.5-34.4	32.1	31.5	3518 7523	C44E 1920
M 3	0-15	23 6	1853	DUSK	27	23.7-24.9	24.6 23.7	24.5	NONE	-	35.2-36.4	35.8	35.1	3514 7518	C44E 1919
M 4	0-15	23 6	2003	NIGHT	68	25.2-26.2	25.8 26.2	23.3	GRADUAL	-	36.6-36.8	36.7	36.6	3512 7512	C44E 1919
M 4	18-33	23 6	2003	NIGHT	68	23.9-25.1	24.8 26.2	23.3	GRADUAL	-	36.7-36.9	36.8	36.6	3512 7512	C44E 1919
M 5	0-15	23 6	2110	NIGHT	269	25.6-26.6	26.5 26.6	17.3	WEAK	14-20	36.6-36.8	36.7	36.5	3510 7507	C44E 1918
M 5	18-33	23 6	2110	NIGHT	269	25.0-25.4	25.1 26.6	17.3	WEAK	14-20	36.6-36.7	36.7	36.5	3510 7507	C44E 1918
N 1	0-15	24 6	0314	NIGHT	25	23.6-23.6	23.6 23.6	23.3	NONE	-	35.5-35.8	35.7	35.5	3501 7557	C44E 1918
N 2	0-15	24 6	0220	NIGHT	25	24.0-24.1	24.0 24.0	24.0	NONE	-	35.7-35.9	35.8	35.8	3456 7555	C44E 1918
N 3	0-15	24 6	0124	NIGHT	31	24.2-25.4	25.2 25.4	24.2	WEAK	10-13	35.9-36.3	36.1	36.3	3451 7552	C45E 1920
N 4	0-15	24 6	0851	DAY	46	25.4-25.5	25.5 25.5	22.3	GRADUAL	-	36.1-36.2	36.1	36.2	3442 7548	C45E 1920
N 4	18-33	24 6	0851	DAY	46	23.0-25.3	24.4 25.5	22.3	GRADUAL	-	36.1-36.3	36.2	36.2	3442 7548	C45E 1920
N 5	0-15	24 6	1039	DAY	08	25.3-25.6	25.5 25.6	18.4	GRADUAL	-	36.0-36.2	36.1	36.1	3433 7544	C45E 1919
N 5	18-33	24 6	1039	DAY	08	22.1-25.1	23.7 25.6	18.4	GRADUAL	-	36.1-36.3	36.2	36.1	3433 7544	C45E 1919
P 1	0-6	24 6	1834	DAY	16	23.6-24.0	24.0 24.0	22.0	STRONG	7-10	33.4-33.5	33.4	33.4	3438 7540	C45E 1924
P 2	0-6	24 6	2126	NIGHT	18	22.6-23.8	23.3 23.8	22.0	GRADUAL	-	33.3-33.5	33.3	33.3	3434 7537	C45E 1922
P 3	0-6	24 6	2311	NIGHT	16	23.5-23.7	23.6 23.7	23.0	GRADUAL	-	34.6-34.6	34.6	34.5	3425 7636	C45E 1922
P 4	0-15	24 6	1518	DAY	34	22.6-24.2	23.1 24.2	22.7	NONE	-	34.8-34.9	34.9	34.7	3417 7623	C45E 1922
P 4	18-24	24 6	1518	DAY	34	22.6-22.7	22.6 24.2	22.7	NONE	-	34.6-35.1	34.9	34.7	3417 7623	C45E 1922
P 5	0-15	25 6	0426	DAWN	209	27.2-27.3	27.2 27.2	20.2	GRADUAL	-	36.2-36.3	36.3	36.2	3404 7613	C45E 1920
P 5	18-33	25 6	0426	DAWN	209	27.3-27.3	27.3 27.2	20.2	GRADUAL	-	36.2-36.4	36.3	36.2	3404 7613	C45E 1920

TABLE 2. (continued)

CRUISE NO 61 C STA.	TOW DEPTH (M)	DATE 1965 D M	TOW START HST	LIGHT COND.	WATER DEPTH (M)	***** RANGE	TEMPERATURE MEAN SURF.	(C) 8DT.	***** THERMOCLINE DEGREE	DEPTH (M)	**** SALINITY (0/00) MEAN	**** SURF.	POSITION LAT. LONG.	** SUN ** RISE SET
A 1	0-6	5 8	0402	NIGHT	16	17.3-17.6	17.5	17.6	17.1	NONE	-	30.5-31.0	30.9	30.8 4117 7048 0441 1855
A 2	0-15	5 8	0507	DAY	25	14.5-18.2	16.6	18.2	12.5	GRADUAL	-	30.7-31.3	31.1	31.1 4112 7047 0442 1855
A 3	0-15	5 8	0601	DAY	34	12.6-18.8	16.5	18.8	10.4	GRADUAL	-	31.2-31.5	31.3	31.5 4107 7046 0442 1855
A 3	18-24	5 8	0601	DAY	34	12.6-12.7	12.7	18.8	10.4	GRADUAL	-	31.3-31.4	31.3	31.5 4107 7046 0442 1855
A 4	0-15	5 8	0740	DAY	52	11.0-17.7	15.4	17.7	7.4	GRADUAL	-	31.3-31.7	31.5	21.2 4057 7044 0442 1855
A 4	19-33	5 8	0740	DAY	52	8.2-10.7	9.4	17.7	7.4	GRADUAL	-	31.7-32.3	31.9	31.2 4057 7044 0442 1855
A 5	0-15	5 8	1119	DAY	58	20.1-20.5	20.4	20.5	9.3	STRONG	15-26	31.9-32.0	32.0	31.8 4047 7042 0442 1854
A 5	18-33	5 8	1119	DAY	58	9.5-18.5	12.4	20.5	9.3	STRONG	15-26	31.2-33.5	32.3	31.8 4047 7042 0442 1854
A 6	0-15	5 8	1341	DAY	70	19.8-20.7	20.5	20.7	9.0	STRONG	15-34	32.5-32.9	32.8	32.5 4032 7040 0443 1854
A 6	18-33	5 8	1341	DAY	70	11.1-17.2	14.4	20.7	9.0	STRONG	15-34	32.9-33.6	33.4	32.5 4032 7040 0443 1854
A 7	0-15	5 8	1641	DAY	108	21.4-21.5	21.4	21.5	12.1	WEAK	20-44	33.0-33.2	33.1	33.1 4017 7037 0442 1852
A 7	18-33	5 8	1641	DAY	108	15.5-21.1	18.1	21.5	12.1	WEAK	20-44	33.1-33.7	33.3	33.1 4017 7037 0442 1852
B 1	0-15	6 8	1249	DAY	20	17.5-18.5	17.7	18.5	17.5	NONE	-	30.1-30.3	30.2	30.1 4103 7151 0447 1858
B 2	0-15	6 8	1049	DAY	34	15.5-17.8	17.1	17.8	10.5	GRADUAL	-	30.3-30.6	30.4	30.3 4058 7145 0447 1858
B 2	18-21	6 8	1049	DAY	34	12.5-14.2	13.3	17.8	10.5	GRADUAL	-	31.0-31.3	31.2	30.3 4058 7149 0447 1858
B 3	0-15	6 8	1001	DAY	44	13.0-17.8	16.2	17.8	7.5	GRADUAL	-	30.9-31.1	31.0	30.8 4054 7147 0447 1857
B 3	18-33	6 8	1001	DAY	44	8.5-11.6	9.5	17.8	7.5	GRADUAL	-	31.0-31.3	31.2	30.8 4054 7147 0447 1857
B 4	0-15	6 8	0820	DAY	59	12.0-18.8	17.3	18.8	5.6	STRONG	7-17	30.8-31.5	31.0	30.7 4044 7144 0448 1857
B 4	18-33	6 8	0820	DAY	59	7.2-10.4	8.4	18.8	5.6	STRONG	7-17	31.2-31.5	31.4	30.7 4044 7144 0448 1857
B 5	0-15	6 8	0444	DAWN	73	19.5-19.9	19.7	19.9	5.2	STRONG	16-33	30.5-31.1	31.1	30.8 4034 7140 0448 1857
B 5	18-33	6 8	0444	DAWN	73	7.2-18.6	17.7	19.9	5.2	STRONG	16-33	31.3-31.6	31.4	30.8 4034 7140 0448 1857
B 6	0-15	6 8	0033	NIGHT	84	21.3-21.3	21.3	21.3	7.3	STRONG	20-39	31.9-32.4	32.0	32.0 4020 7135 0447 1855
B 6	18-33	6 8	0033	NIGHT	84	13.3-20.7	17.2	21.3	7.3	STRONG	20-39	32.2-32.9	32.5	32.0 4020 7135 0447 1855
B 7	0-15	5 8	2240	NIGHT	95	21.5-21.6	21.6	21.6	9.2	STRONG	16-30	32.2-32.2	32.2	32.1 4005 7129 0447 1856
B 7	18-33	5 8	2240	NIGHT	95	10.1-21.1	14.5	21.6	9.2	STRONG	16-30	31.3-32.3	32.0	32.1 4005 7129 0447 1856
C 1	0-6	6 8	2343	NIGHT	15	19.8-20.6	20.5	20.6	12.3	STRONG	5-13	30.6-30.8	30.7	30.8 4035 7317 0454 1903
C 2	0-15	7 8	0037	NIGHT	28	13.3-20.2	18.2	20.2	9.6	WEAK	5-19	30.6-30.8	30.7	30.7 4031 7314 0455 1901
C 3	0-15	7 8	0139	NIGHT	32	14.5-20.3	18.8	20.3	7.9	STRONG	11-22	30.6-30.7	30.7	30.7 4027 7310 0455 1901
C 3	18-24	7 8	0139	NIGHT	32	7.9-11.5	8.5	20.3	7.9	STRONG	11-22	31.1-31.5	31.4	30.7 4027 7310 0455 1901
C 4	0-15	7 8	0313	NIGHT	40	11.5-20.9	18.1	20.9	6.8	STRONG	5-21	30.5-31.4	30.9	30.8 4019 7302 0458 1904
C 4	18-33	7 8	0313	NIGHT	40	7.1-10.1	8.1	20.9	6.8	STRONG	5-21	30.8-31.4	31.1	30.8 4019 7303 0458 1904
C 5	0-15	7 8	0645	DAY	48	10.5-19.9	17.5	19.9	5.9	STRONG	8-18	31.2-31.9	31.4	31.1 4010 7255 0455 1900
C 5	18-33	7 8	0645	DAY	48	6.4-8.5	6.8	19.9	5.9	STRONG	8-18	31.4-31.8	31.6	31.1 4010 7255 0455 1900
C 6	0-15	7 8	0905	DAY	55	8.2-20.5	17.2	20.5	4.3	STRONG	6-15	31.0-32.2	31.5	31.0 3958 7244 0454 1858
C 6	18-33	7 8	0905	DAY	55	5.1-7.6	6.3	20.5	4.3	STRONG	6-15	31.5-31.9	31.7	31.0 3958 7244 0454 1858
C 7	0-15	7 8	1306	DAY	65	20.7-22.4	21.2	22.4	4.8	STRONG	15-26	31.2-31.3	31.3	31.2 3946 7233 0454 1857
C 7	18-33	7 8	1306	DAY	65	5.7-15.9	8.5	22.4	4.8	STRONG	15-26	31.1-32.6	31.7	31.2 3946 7233 0454 1857
C 8	0-15	7 8	1530	DAY	159	21.4-22.3	21.9	22.3	10.3	STRONG	16-30	31.4-31.5	31.5	31.5 3934 7222 0454 1856
C 8	18-33	7 8	1530	DAY	159	10.2-20.3	14.2	22.3	10.3	STRONG	16-30	31.2-31.7	31.3	31.5 3934 7222 0454 1856
D 1	0-6	8 8	1139	DAY	16	18.3-19.7	19.4	19.7	10.4	STRONG	5-16	30.1-30.3	30.2	30.1 3951 7404 0504 1906
D 2	0-6	8 8	1044	DAY	20	17.6-19.4	19.2	19.4	9.2	STRONG	5-11	28.6-30.0	29.3	30.0 3948 7355 0500 1902
D 3	0-15	8 8	0952	DAY	23	9.6-21.5	15.1	21.5	9.4	STRONG	9-15	31.0-31.2	31.1	30.9 3945 7354 0501 1902
D 4	0-6	8 8	0836	DAY	23	21.6-21.6	21.6	21.6	8.8	STRONG	10-14	30.5-30.7	30.6	30.4 3939 7343 0500 1900
D 5	0-15	8 8	1515	DAY	37	20.1-22.2	21.5	22.2	8.6	STRONG	14-19	30.9-31.0	30.9	30.9 3932 7332 0455 1859
D 5	18-24	8 8	1515	DAY	37	8.8-13.3	9.6	22.2	8.6	STRONG	14-19	31.0-31.2	31.1	30.9 3932 7333 0459 1859
D 6	0-15	8 8	0322	NIGHT	50	21.1-21.9	21.7	21.9	5.3	STRONG	15-23	30.5-30.7	30.6	30.5 3923 7315 0458 1858
D 6	18-33	8 8	0322	NIGHT	50	6.5-16.0	9.1	21.9	5.3	STRONG	15-23	30.5-31.2	30.9	30.5 3923 7319 0458 1859
D 7	0-15	7 8	2118	NIGHT	76	17.9-22.7	21.2	22.2	5.0	STRONG	11-24	30.5-31.0	30.7	30.5 3914 7303 0501 1902
D 7	18-33	7 8	2118	NIGHT	76	6.5-17.1	7.5	22.2	5.0	STRONG	11-24	30.9-31.4	31.2	30.5 3914 7303 0501 1902
D 9	0-15	7 8	2121	NIGHT	118	22.0-22.5	22.3	22.5	9.4	STRONG	16-32	31.6-32.2	31.9	31.6 3906 7250 0456 1856
D 9	18-33	7 8	2121	NIGHT	118	6.5-18.8	11.6	22.5	9.4	STRONG	16-32	31.6-32.4	31.9	31.6 3906 7250 0456 1856
E 1	0-6	8 8	2205	NIGHT	14	18.7-20.0	19.4	20.0	17.3	STRONG	7-12	30.5-30.9	30.9	30.9 3917 7431 0504 1903
E 2	0-6	8 8	2259	NIGHT	16	19.3-20.6	20.5	20.6	11.7	STRONG	5-12	31.0-31.1	31.1	31.1 3914 7425 0504 1903
E 3	0-6	8 8	2357	NIGHT	18	20.6-21.8	21.5	21.8	11.5	STRONG	4-13	31.0-31.1	31.0	31.1 3911 7420 0503 1901
E 4	0-6	8 8	0700	DAY	24	20.6-21.9	21.6	21.9	10.1	STRONG	6-15	31.3-31.3	31.3	31.3 3905 7405 0504 1900
E 5	0-15	9 8	1013	DAY	36	20.7-22.2	21.8	22.1	8.7	STRONG	14-21	30.5-31.0	31.0	30.9 3859 7359 0503 1859
E 5	18-24	9 8	1013	DAY	36	9.7-15.4	11.7	22.1	8.7	STRONG	14-21	31.2-31.4	31.3	30.9 3859 7359 0503 1859
E 6	0-15	9 8	1206	DAY	43	22.2-22.7	22.6	22.7	7.6	STRONG	16-25	30.6-30.7	30.7	30.7 3854 7345 0502 1858
E 6	18-33	9 8	1206	DAY	43	7.9-18.7	10.9	22.7	7.6	STRONG	16-25	30.4-31.3	30.9	30.7 3854 7349 0502 1858
F 7	0-15	9 8	1405	DAY	64	21.7-22.7	22.1	22.7	5.1	STRONG	16-30	30.8-31.0	30.9	30.8 3845 7332 0501 1856
F 7	18-33	9 8	1405	DAY	64	6.9-16.0	9.5	22.7	5.1	STRONG	16-30	31.2-31.8	31.5	30.8 3845 7333 0501 1856
F 8	0-15	9 8	1611	DAY	134	22.8-23.3	23.1	23.3	9.6	WEAK	15-42	31.6-31.8	31.7	31.5 3836 7318 0501 1855
F 8	18-33	9 8	1611	DAY	134	13.6-21.5	17.3	23.3	9.6	WEAK	15-42	31.9-32.4	32.2	31.5 3836 7318 0501 1855
F 1	0-6	10 8	0454	DAWN	16	17.4-18.2	17.8	18.2	15.9	NONE	-	31.1-38.8	34.3	38.7 3846 7503 0508 1901
F 2	0-6	10 8	0400	NIGHT	21	17.2-18.5	17.8	18.5	14.9	GRADUAL	-	30.5-30.7	30.6	30.4 3843 7458 0509 1901
F 3	0-15	10 8	0307	NIGHT	25	13.5-18.7	16.0	18.7	10.8	GRADUAL	-	30.5-31.0	30.7	30.6 3840 7452 0508 1900
F 4	0-15	10 8	0146	NIGHT	21	10.1-21.7	15.1	21.7	10.0	STRONG	7-14	30.9-31.1	31.0	30.9 3835 7441 0508 1900
F 5	0-15	09 8	2352	NIGHT	34	14.8-22.4	20.7	22.4	8.6	STRONG	9-19	30.5-30.9	30.9	30.8 3829 7430 0506 1900
F 5	18-24	09 8	2352	NIGHT	34	8.8-11.5	9.5	22.4	8.6	STRONG	9-19	31.1-31.3	31.2	30.8 3829 7430 0506 1900
F 6	0-15	9 8	2206	NIGHT	54	19.9-22.0	22.0	23.0	6.2	STRONG	12-21	31.1-31.2	31.1	31.0 3821 7413 0505 1859
F 6	18-33	9 8	2206	NIGHT	54	6.9-13.0	7.8	23.0	6.2	STRONG	12-21	31.2-31.9	31.6	31.0 3821 7413 0505 1859
F 7	0-15	9 8	2018	NIGHT	74	20.6-22.6	22.2	22.6	5.5	STRONG	13-26	31.0-31.6	31.3	31.3 3813 7357 0505 1857
F 7	18-33	9 8	2018	NIGHT	74	6.5-16.8	9.4	22.6	5.5	STRONG	13-26	30.0-31.9	31.3	31.3 3813 7357 0505 1857
G 1	0-6	21 8	0537	DAY	11	19.5-21.0	20.4	21.0	16.9	STRONG	4-6	31.1-31.4	31.3	31.1 3807 7509 0521 1847
G 2	0-6	21 8	0640	DAY	13	14.3-21.4	17.4	21.4	13.2	STRONG	2-5	31.2-31.2	31.2	31.2 3804 7504 0520 1846
G 3	0-15	21 8	0752	DAY	16	12.2-22.6	17.4</							

TABLE 2. (continued)

CRUISE DATE STA.	TOW DEPTH (M)	DATE 1966 O M	TOW START FST	LIGHT COND.	WATER DEPTH (M)	***** RANGE	TEMPERATURE MEAN SURF.	(C) BOT.	***** DEGREE	THERMOCLINE DEPTH (M)	**** RANGE	SALINITY (0/00) MEAN	**** SURF.	POSITION LAT. LONG.	** SUN ** RISE SET
G 6	0-15	21 8	1509	OAY	91	19.6-24.6	23.0	24.6	8.8	STRONG	7-30	30.8-31.1	31.0	3742 7422	0516 1843
G 6	18-33	21 8	1509	OAY	91	7.1-16.4	11.0	24.6	8.8	STRONG	7-30	31.4-31.8	31.6	3742 7422	0518 1843
H 1	0-3	22 8	0902	OAY	10	21.1-24.0	22.5	24.0	19.1	STRONG	3-5	30.9-30.9	30.9	3734 7533	0524 1846
H 2	0-15	22 8	1005	OAY	18	14.5-24.5	19.0	24.9	14.5	STRONG	2-7	25.8-30.8	30.4	3732 7528	0524 1846
H 3	0-6	22 8	1055	OAY	24	23.4-25.5	25.0	25.5	13.4	STRONG	5-12	29.9-35.6	32.3	3730 7522	0523 1845
H 4	0-15	22 8	0305	NIGHT	26	12.6-24.5	21.6	24.5	9.8	STRONG	10-17	30.5-31.1	30.6	3727 7510	0523 1845
H 5	0-15	22 8	0139	NIGHT	40	18.8-25.4	23.7	25.4	8.4	STRONG	11-22	30.5-31.0	30.7	3723 7458	0522 1843
H 5	18-24	22 8	0139	NIGHT	40	9.7-14.8	11.7	25.4	8.4	STRONG	11-22	31.0-31.2	31.1	30.8 3723	7458 0522 1843
H 6	0-15	21 8	2143	NIGHT	86	20.7-25.5	24.1	25.5	9.3	STRONG	8-30	30.7-32.0	30.9	30.7 3718	7440 0520 1844
H 6	18-33	21 8	2143	NIGHT	86	6.9-17.2	10.6	25.5	9.3	STRONG	8-30	31.2-31.9	31.4	30.7 3718	7440 0520 1844
H 7	0-15	21 8	2030	NIGHT	131	22.0-25.5	24.4	25.5	10.5	STRONG	10-30	30.9-31.6	31.2	30.9 3716	7434 0519 1842
H 7	18-33	21 8	2030	NIGHT	131	6.0-18.5	10.3	25.5	10.5	STRONG	10-30	30.6-31.8	31.1	30.9 3716	7434 0519 1842
J 1	0-6	22 8	1623	OAY	15	22.1-25.0	23.7	25.0	19.4	STRONG	3-8	27.3-28.7	27.9	27.3 3655	7558 0522 1843
J 2	0-6	22 8	1539	OAY	10	15.4-22.8	18.6	22.8	14.6	STRONG	0-5	28.3-30.8	29.7	28.3 3655	7552 0525 1846
J 3	0-6	22 8	1455	OAY	16	17.2-22.8	19.8	22.8	14.5	STRONG	0-7	28.8-30.3	29.6	28.8 3654	7545 0525 1846
J 4	0-6	22 8	2157	NIGHT	17	24.2-26.0	25.8	26.0	13.0	STRONG	5-13	30.6-30.7	30.6	30.6 3653	7533 0524 1845
J 5	0-15	22 8	2347	NIGHT	26	15.7-26.1	21.2	26.1	10.3	GRADUAL	-	30.4-31.2	30.7	30.4 3652	7521 0523 1844
J 6	0-15	23 8	0335	NIGHT	35	18.5-25.8	23.6	25.7	8.3	STRONG	6-24	30.3-30.6	30.5	30.4 3650	7502 0523 1841
J 6	18-33	23 8	0335	NIGHT	35	8.2-14.5	9.6	25.7	8.3	STRONG	6-24	30.7-31.4	31.0	30.4 3650	7502 0523 1841
J 7	0-15	23 8	0617	OAY	102	22.9-25.8	25.2	25.8	10.8	STRONG	11-36	30.7-31.5	31.1	30.7 3648	7444 0522 1840
J 7	18-33	23 8	0617	OAY	102	8.2-22.2	14.4	25.8	10.8	STRONG	11-36	31.7-32.3	32.0	30.7 3648	7444 0522 1840
K 1	0-6	24 8	2151	NIGHT	13	23.3-23.4	23.4	23.4	22.8	NONE	-	30.3-30.4	30.3	30.3 3623	7548 0528 1843
K 2	0-6	24 8	2056	NIGHT	18	22.6-23.5	23.3	23.5	17.8	STRONG	6-12	30.9-30.9	30.9	30.9 3623	7542 0528 1843
K 3	0-15	24 8	1954	NIGHT	25	15.0-24.4	22.1	24.4	14.8	STRONG	7-15	30.7-31.1	30.8	30.9 3622	7536 0527 1842
K 4	0-15	23 8	1857	NIGHT	27	14.5-25.5	22.0	25.5	10.5	STRONG	8-18	30.3-31.3	30.9	31.2 3622	7523 0526 1843
K 4	18-24	23 8	1857	NIGHT	27	10.8-12.5	11.7	25.5	10.5	STRONG	8-18	30.8-31.6	31.3	31.2 3622	7523 0526 1843
K 5	0-15	23 8	1718	OAY	30	19.4-26.4	22.9	26.4	9.6	STRONG	7-23	31.2-31.3	31.3	31.1 3622	7511 0525 1842
K 5	18-24	23 8	1718	OAY	30	10.2-15.4	12.3	26.4	9.6	STRONG	7-23	31.4-31.7	31.6	31.1 3622	7511 0525 1842
K 6	0-15	23 8	1329	OAY	41	14.4-26.7	22.8	26.7	7.7	STRONG	7-15	30.2-31.2	30.8	30.9 3621	7458 0524 1841
K 6	18-33	23 8	1329	OAY	41	8.1-13.1	10.2	26.7	7.7	STRONG	7-15	31.0-31.2	32.0	30.9 3621	7458 0524 1841
K 7	0-15	23 8	1155	OAY	668	18.8-26.1	24.0	26.1	10.8	STRONG	10-34	30.4-31.2	30.7	30.5 3621	7446 0523 1840
K 7	18-33	23 8	1155	OAY	668	7.9-16.3	11.2	26.1	10.8	STRONG	10-34	31.7-32.5	32.1	30.5 3621	7446 0523 1840
L 1	0-6	25 8	0255	NIGHT	13	23.8-23.8	22.8	22.8	23.6	NONE	-	31.0-31.1	31.1	31.1 3546	7530 0528 1839
L 2	0-6	25 8	0211	NIGHT	16	23.7-24.3	24.2	24.2	20.2	STRONG	6-11	30.9-31.3	31.1	30.9 3546	7524 0528 1839
L 3	0-15	25 8	0445	NIGHT	23	16.5-24.6	22.2	24.6	16.4	STRONG	7-14	31.3-31.9	31.5	31.5 3546	7517 0527 1838
L 3	18-24	25 8	0445	NIGHT	33	14.7-16.4	15.6	24.6	16.4	STRONG	7-14	32.2-32.7	32.5	31.5 3546	7517 0527 1838
L 4	0-15	25 8	0618	OAY	41	24.5-25.8	25.6	25.8	16.0	STRONG	19-25	31.9-33.6	32.4	31.8 3545	7505 0526 1837
L 4	18-33	25 8	0618	OAY	41	15.6-24.1	18.1	25.8	16.0	STRONG	19-25	31.2-34.5	33.3	31.8 3545	7505 0526 1837
L 5	0-15	25 8	0759	OAY	214	19.1-25.3	24.3	25.3	8.9	WEAK	10-26	31.0-31.5	31.4	31.4 3545	7452 0525 1836
L 5	18-33	25 8	0759	OAY	214	8.1-16.1	11.3	25.3	8.9	WEAK	10-26	31.3-33.8	32.3	31.4 3545	7452 0525 1836
M 1	0-6	25 8	1212	OAY	15	25.4-25.4	25.4	25.4	25.4	NONE	-	31.4-31.6	31.5	31.5 3518	7525 0525 1839
M 2	0-6	25 8	1307	OAY	17	24.5-25.2	25.1	25.0	23.0	WEAK	7-10	32.1-32.6	32.3	32.6 3516	7523 0525 1839
M 3	0-15	25 8	1400	OAY	25	18.9-25.6	22.0	25.6	19.6	STRONG	4-10	32.6-33.5	33.3	32.6 3514	7518 0528 1838
M 4	0-15	25 8	1502	OAY	54	24.4-27.6	26.8	27.6	22.2	WEAK	7-17	34.6-35.1	34.9	34.7 3512	7512 0528 1838
M 4	18-24	25 8	1502	OAY	54	22.3-23.4	22.7	27.6	22.2	WEAK	7-17	34.6-34.9	34.8	34.7 3512	7512 0528 1838
M 5	0-15	25 8	1608	OAY	381	27.2-27.7	27.6	27.6	12.1	STRONG	41-5	34.5-34.9	34.6	34.4 3510	7507 0527 1837
M 5	18-33	25 8	1608	OAY	381	23.1-26.8	25.4	27.6	12.1	STRONG	41-5	34.8-35.2	35.0	34.4 3510	7507 0527 1837
N 1	0-15	25 8	2036	NIGHT	22	27.1-27.2	27.2	27.2	26.6	NONE	-	34.6-34.8	34.7	34.6 3501	7557 0527 1837
N 2	0-15	25 8	2142	NIGHT	23	23.7-26.4	25.6	26.4	23.7	WEAK	6-13	34.4-35.3	34.8	34.4 3456	7555 0527 1837
N 3	0-15	25 8	2242	NIGHT	27	27.5-27.5	27.5	27.5	25.2	GRADUAL	-	34.5-35.1	34.6	34.5 3451	7552 0530 1839
N 3	18-24	25 8	2242	NIGHT	27	25.5-27.0	26.3	27.5	25.2	GRADUAL	-	35.0-35.2	35.1	34.5 3451	7552 0530 1839
N 4	0-15	26 8	0009	NIGHT	48	28.0-28.0	28.0	28.0	21.6	WEAK	17-41	34.1-34.5	34.2	34.1 3442	7548 0531 1838
N 4	18-33	26 8	0009	NIGHT	48	22.9-27.5	25.2	28.0	21.6	WEAK	17-41	34.8-35.3	35.0	34.1 3442	7548 0531 1838
N 5	0-15	26 8	0132	NIGHT	206	28.3-28.8	28.6	28.3	13.3	GRADUAL	-	34.1-35.2	34.7	34.2 3433	7544 0531 1838
N 5	18-33	26 8	0132	NIGHT	206	26.0-28.5	27.4	28.3	13.3	GRADUAL	-	35.1-35.4	35.2	34.2 3433	7544 0531 1838
P 1	0-6	26 8	1150	OAY	12	26.6-26.6	26.6	26.6	25.7	NONE	-	34.3-34.6	34.4	34.3 3438	7540 0535 1842
P 2	0-6	26 8	1049	OAY	15	26.5-26.5	26.5	26.5	25.9	NONE	-	34.4-34.7	34.6	34.4 3434	7537 0534 1841
P 3	0-6	26 8	0922	OAY	13	26.1-26.2	26.2	26.1	25.4	NONE	-	34.7-34.9	34.8	34.7 3425	7636 0535 1841
P 4	0-15	26 8	0753	OAY	28	25.5-27.8	27.5	27.8	22.7	WEAK	10-19	34.3-34.5	34.5	34.3 3417	7523 0535 1840
P 5	0-15	26 8	0552	OAY	187	28.4-28.8	28.6	28.4	16.2	GRADUAL	-	33.9-35.1	34.2	33.8 3404	7613 0534 1839
P 5	18-33	26 8	0552	OAY	187	26.7-26.7	26.1	26.4	16.2	GRADUAL	-	35.1-35.4	35.2	33.8 3404	7613 0534 1839

TABLE 2. (continued)

CRUISE D6611 STA.	TOW DEPTH (M)	DATE 1966 D M	TOW START FST	LIGHT COND.	WATER DEPTH (M)	***** RANGE	TEMPERATURE (C) MEAN SURF.	***** BOT.	THERMOCLINE DEGREE DEPTH (M)	**** RANGE	SALINITY (10/00) MEAN	**** SURF.	POSITION LAT. LONG.	** SUN ** RISE SET	
A 1	0-3	13 9	0927	DAY	19	17.1-17.2	17.2	17.1	NONE	-	31.4-31.4	31.4	4117 7048	0521 1757	
A 2	0-15	13 9	1033	DAY	30	16.6-17.2	16.7	17.2	13.6	GRADUAL	-	31.4-31.5	31.4	4112 7047	0521 1757
A 2	19-24	13 9	1033	DAY	30	14.5-15.8	15.3	17.2	13.6	GRADUAL	-	31.5-31.5	31.4	4112 7047	0521 1757
A 3	0-15	13 9	1143	DAY	40	15.6-16.2	17.3	16.2	11.7	GRADUAL	-	31.2-31.7	31.5	4107 7046	0521 1757
A 3	19-24	13 9	1143	DAY	40	13.0-14.6	13.8	16.2	11.7	GRADUAL	-	31.3-31.7	31.5	4107 7046	0521 1757
A 4	0-15	13 9	1315	DAY	45	19.1-15.8	19.6	19.8	9.6	STRONG	19-24	31.9-32.0	32.0	4057 7044	0521 1756
A 4	18-33	13 9	1315	DAY	49	11.9-18.6	14.2	19.8	9.6	STRONG	19-24	31.5-31.9	31.7	4057 7044	0521 1756
A 5	0-15	13 9	1716	DAY	60	17.6-17.8	17.7	17.8	8.9	STRONG	20-30	31.6-31.8	31.7	4047 7042	0521 1756
A 5	18-33	13 9	1716	DAY	60	11.2-17.6	14.6	17.8	8.9	STRONG	20-30	31.4-31.8	31.6	4047 7042	0521 1756
A 6	0-15	13 9	1930	NIGHT	68	17.4-17.6	17.5	17.4	7.8	STRONG	20-41	31.6-32.1	32.0	4032 7040	0521 1756
A 6	19-33	13 9	1930	NIGHT	68	11.5-17.8	14.8	17.4	7.8	STRONG	20-41	31.7-32.2	31.9	4032 7040	0521 1756
A 7	0-12	14 9	0004	NIGHT	112	19.5-18.8	18.8	18.8	8.3	STRONG	19-40	32.5-32.7	32.5	4017 7037	0521 1754
A 7	19-30	14 9	0004	NIGHT	112	12.3-17.7	15.2	18.8	8.3	STRONG	19-40	32.1-32.4	32.2	4017 7037	0521 1754
A 1	0-6	14 9	2204	NIGHT	26	18.2-18.2	18.2	18.2	17.5	NONE	-	31.0-31.0	31.0	4103 7151	0526 1759
A 2	0-15	14 9	2325	NIGHT	34	18.3-18.6	18.5	18.6	13.2	GRADUAL	-	31.4-31.6	31.5	4058 7149	0526 1759
E 3	0-15	16 9	2333	NIGHT	50	17.0-15.6	15.1	15.6	10.0	STRONG	20-30	32.4-32.5	32.4	4054 7147	0528 1755
B 3	18-33	16 9	2333	NIGHT	50	10.7-15.1	12.3	19.6	10.0	STRONG	20-30	31.6-32.4	32.0	4054 7147	0528 1755
P 4	0-15	14 9	1643	DAY	63	20.5-21.0	20.9	21.0	8.5	STRONG	18-39	32.0-32.2	32.1	4044 7144	0526 1759
P 4	18-33	14 9	1643	DAY	63	10.4-20.9	15.0	21.0	8.5	STRONG	18-39	31.6-32.4	32.1	4044 7144	0526 1759
P 5	0-15	14 9	1259	DAY	72	21.7-21.7	21.7	21.7	8.3	STRONG	24-45	32.3-32.4	32.3	4034 7140	0526 1759
P 5	18-33	14 9	1259	DAY	72	14.9-21.6	15.8	21.7	8.3	STRONG	24-45	32.2-32.4	32.3	4034 7140	0526 1759
B 6	0-15	14 9	0904	DAY	82	18.9-18.5	18.9	18.9	9.3	WEAK	18-35	31.9-32.1	32.0	4020 7135	0525 1758
P 6	18-33	14 9	0904	DAY	82	10.5-18.5	15.0	18.9	9.3	WEAK	18-35	32.1-32.3	32.2	4020 7135	0525 1758
B 7	0-15	14 9	0357	NIGHT	94	15.5-18.7	18.0	18.6	9.9	WEAK	10-35	31.8-32.3	32.2	4005 7129	0525 1757
P 7	19-33	14 9	0357	NIGHT	54	8.2-14.0	10.5	18.6	9.9	WEAK	10-35	31.7-32.2	31.9	4005 7125	0525 1757
C 1	0-5	17 9	0750	DAY	17	19.8-19.9	19.9	19.8	19.9	NONE	-	31.2-31.5	31.4	4035 7317	0535 1800
C 2	0-15	17 9	0658	DAY	27	19.3-15.5	15.5	19.9	18.7	NONE	-	31.0-31.6	31.2	4031 7314	0535 1800
C 3	0-15	17 9	0607	DAY	34	19.1-19.6	15.4	15.6	18.5	GRADUAL	-	31.3-31.5	31.4	4027 7310	0535 1800
C 3	18-24	17 9	0607	DAY	34	18.6-15.0	18.9	19.6	18.5	GRADUAL	-	31.2-31.4	31.3	4027 7310	0535 1800
C 4	0-15	17 9	1540	DAY	41	20.7-21.2	20.9	21.2	9.0	STRONG	18-27	31.5-31.8	31.7	4019 7303	0538 1803
C 4	18-33	17 9	1540	DAY	41	9.2-20.4	13.0	21.2	9.0	STRONG	18-27	31.4-31.8	31.6	4019 7303	0538 1803
C 5	0-15	17 9	1735	DUSK	48	20.3-20.6	20.5	20.6	6.4	STRONG	20-29	32.0-32.6	32.2	4010 7255	0534 1759
C 5	18-33	17 9	1735	DUSK	48	6.8-20.2	12.3	20.6	6.4	STRONG	20-29	32.0-32.7	32.3	4010 7255	0534 1759
C 6	0-15	17 9	1923	NIGHT	57	20.2-20.8	20.4	20.8	6.2	STRONG	17-28	32.0-32.1	32.0	3958 7244	0532 1758
C 6	18-33	17 9	1923	NIGHT	57	7.8-19.4	12.7	20.8	6.2	STRONG	17-28	31.2-31.9	31.6	3958 7244	0533 1758
C 7	0-15	17 9	2147	NIGHT	74	19.9-20.1	20.0	20.1	7.9	STRONG	15-30	31.7-31.9	31.8	3946 7233	0532 1756
C 7	18-33	17 9	2147	NIGHT	74	8.5-17.4	12.1	20.1	7.9	STRONG	15-30	31.5-31.9	31.7	3946 7233	0532 1756
C 8	0-15	17 9	2349	NIGHT	315	20.8-20.8	20.8	20.8	10.9	STRONG	32-40	33.0-33.1	33.1	3934 7222	0532 1756
C 8	19-33	17 9	2349	NIGHT	315	19.4-20.8	20.5	20.8	10.9	STRONG	32-40	32.5-33.1	33.0	3934 7222	0532 1756
D 1	0-6	18 9	1413	DAY	16	21.0-21.1	21.0	21.1	20.7	NONE	-	30.4-30.5	30.5	3951 7404	0542 1805
C 2	0-6	18 9	1321	DAY	21	20.1-20.6	20.3	20.6	19.7	NONE	-	30.1-30.4	30.3	3948 7359	0539 1801
D 3	0-15	18 9	1226	DAY	23	20.0-20.3	20.2	20.3	16.3	WEAK	22-26	30.5-30.9	30.7	3945 7354	0535 1801
D 4	0-15	18 9	1059	DAY	30	19.5-20.2	19.9	20.2	14.2	STRONG	15-21	30.6-30.8	30.7	3939 7343	0536 1800
D 4	18-24	18 9	1059	DAY	30	14.6-17.2	15.5	20.2	14.2	STRONG	15-21	30.6-30.6	30.6	3939 7343	0538 1800
D 5	0-15	18 9	0943	DAY	35	13.9-20.3	18.6	20.3	9.7	STRONG	9-20	30.1-30.8	30.6	3932 7333	0537 1759
C 5	18-33	18 9	0943	DAY	35	9.7-11.6	10.0	20.3	9.7	STRONG	9-20	30.3-30.9	30.7	3932 7333	0537 1759
D 6	0-15	18 9	0743	DAY	54	14.4-20.9	19.6	20.9	7.3	STRONG	11-23	30.5-31.7	31.5	3923 7315	0536 1758
D 6	18-33	18 9	0743	DAY	54	7.5-11.6	8.4	20.9	7.3	STRONG	11-23	30.7-31.2	30.9	3923 7315	0536 1758
D 7	0-15	18 9	0524	DAWN	71	19.9-20.0	20.0	20.0	5.9	STRONG	18-49	32.0-32.1	32.1	3914 7303	0539 1801
D 7	18-33	18 9	0524	DAWN	71	11.7-19.8	16.6	20.0	5.9	STRONG	18-49	31.3-32.1	31.8	3914 7303	0535 1801
C 8	0-15	18 9	0324	NIGHT	118	20.2-21.2	20.8	20.2	10.5	STRONG	24-35	32.1-33.1	32.7	3906 7250	0534 1756
D 8	19-33	18 9	0324	NIGHT	118	13.7-21.2	18.9	20.2	10.5	STRONG	24-35	31.9-33.0	32.5	3906 7250	0534 1756

TABLE 2. (continued)

CRUISE NO. 12	TOW DEPTH (M)	DATE 1966 O P	TIME START -EST	LIGHT COND.	WATER DEPTH (M)	**** RANGE	TEMPERATURE (C) MEAN SURF.	**** BOT.	THERMOCLINE DEGREE	DEPTH (M)	**** RANGE	SALINITY 10/00 MEAN	**** SURF.	POSITION LAT. LONG.	** SUN ** RISE SET
G 6	0-15	4 10	1209	DAY	85	19.1-19.4	19.2	19.1	11.7	STRONG 26-40	31.5-31.9	31.7	31.4	3742 7422	0556 1737
G 6	18-33	4 10	1209	DAY	85	15.9-19.5	18.7	19.1	11.7	STRONG 26-40	31.8-22.3	22.1	21.4	3742 7422	0556 1737
H 1	0-6	3 10	1656	DAY	11	19.4-19.4	19.4	19.4	NONE	-	30.6-30.7	30.6	30.5	3734 7533	0559 1743
H 2	0-6	3 10	1752	NIGHT	14	19.8-19.8	19.8	19.8	NONE	-	31.0-21.1	31.0	31.0	3722 7528	0559 1743
H 3	0-15	3 10	1853	NIGHT	25	19.5-19.6	19.5	19.7	NONE	-	31.0-31.2	31.1	31.1	3730 7522	0558 1742
H 4	0-15	3 10	1914	DAY	28	19.3-19.4	19.3	19.3	NONE	-	30.6-30.9	30.7	30.9	3727 7510	0558 1742
H 5	0-15	3 10	0950	DAY	35	19.6-19.7	19.7	19.7	GRADUAL	-	30.8-30.9	30.9	30.8	3723 7458	0557 1741
H 5	18-33	3 10	0950	DAY	39	16.1-18.6	17.2	19.7	GRADUAL	-	30.9-21.1	21.0	30.8	3723 7458	0557 1741
H 6	0-15	3 10	0611	DAY	77	19.3-19.3	19.3	8.7	STRONG 26-44	31.9-22.7	32.1	22.7	3718 7440	0556 1740	
H 6	18-33	3 10	0611	DAY	77	13.1-19.4	19.1	19.3	STRONG 26-44	31.7-31.9	31.9	32.7	3718 7440	0556 1740	
H 7	0-15	3 10	0519	NIGHT	116	19.3-19.3	19.3	10.4	STRONG 16-28	32.1-32.4	32.2	32.3	3716 7434	0555 1739	
H 7	18-33	3 10	0519	NIGHT	116	8.5-18.0	12.5	19.3	STRONG 16-28	31.1-32.8	32.0	32.3	3716 7434	0555 1739	
J 1	0-6	1 10	1448	DAY	14	21.4-21.6	21.5	21.4	NONE	-	28.8-28.9	28.9	28.9	3655 7556	0555 1744
J 2	0-6	1 10	1351	DAY	11	21.6-21.6	21.6	21.6	NONE	-	27.8-29.1	28.5	27.8	3655 7552	0558 1747
J 3	0-6	1 10	1257	DAY	17	21.9-22.0	21.9	22.0	NONE	-	28.4-28.8	28.5	28.4	3654 7545	0558 1747
J 4	0-6	2 10	1549	DAY	20	20.4-20.4	20.4	20.3	NONE	-	30.3-31.2	30.9	30.3	3653 7532	0558 1745
J 5	0-15	2 10	1723	DUSK	28	20.0-20.1	20.1	15.7	WEAK 17-22	31.4-21.6	21.5	31.5	3652 7521	0557 1744	
J 6	0-15	2 10	1725	NIGHT	35	19.1-19.5	19.4	19.5	WEAK 16-28	31.8-21.9	21.8	31.9	3650 7502	0556 1743	
J 6	18-24	2 10	1725	NIGHT	35	14.5-18.0	16.6	19.5	WEAK 16-28	31.5-31.6	31.5	31.9	3650 7502	0556 1743	
J 7	0-15	2 10	2355	NIGHT	85	20.1-20.1	20.1	9.5	STRONG 24-40	32.4-32.6	32.5	32.5	3648 7444	0555 1742	
J 7	18-33	2 10	2355	NIGHT	85	12.7-20.1	19.0	20.1	STRONG 24-40	32.0-32.9	32.5	32.5	3648 7444	0555 1742	
K 1	0-15	1 10	0720	DAY	17	19.7-21.4	20.8	21.4	NONE	-	30.4-30.9	30.6	30.3	3623 7548	0556 1747
K 2	0-15	1 10	0825	DAY	22	21.4-22.0	21.9	22.0	WEAK 15-21	30.6-30.7	30.2	29.9	3623 7542	0558 1746	
K 3	0-15	1 10	0924	DAY	25	19.9-21.9	21.5	21.9	WEAK 12-22	29.5-30.9	30.3	29.8	3622 7536	0557 1746	
K 4	0-15	1 10	0153	NIGHT	25	20.5-21.5	21.4	21.5	WEAK 15-22	30.4-30.8	30.6	30.4	3622 7522	0557 1746	
K 5	0-15	1 10	0010	NIGHT	33	18.8-21.6	21.1	21.6	WEAK 11-22	30.6-30.8	30.7	30.7	3622 7511	0556 1745	
K 5	18-24	1 10	0010	NIGHT	33	12.5-15.9	13.9	21.6	WEAK 11-22	30.6-31.0	30.9	30.7	3622 7511	0556 1745	
K 6	0-15	30 9	2016	NIGHT	45	20.8-24.4	21.6	21.3	STRONG 16-28	31.3-34.8	32.7	31.3	3621 7458	0554 1746	
K 6	18-33	30 9	2016	NIGHT	49	10.8-22.4	15.0	21.3	STRONG 16-28	31.5-23.9	22.3	31.3	3621 7458	0554 1746	
K 7	0-15	30 9	1850	NIGHT	823	21.6-24.6	23.0	21.6	STRONG 23-47	31.5-24.4	33.3	21.5	3621 7446	0553 1745	
K 7	18-33	30 9	1850	NIGHT	823	19.3-25.0	21.7	21.6	STRONG 23-47	32.1-34.8	34.1	31.5	3621 7446	0553 1745	
L 1	0-6	30 9	0406	NIGHT	13	22.4-22.7	22.6	22.7	GRADUAL	-	27.8-30.2	29.2	27.7	3546 7530	0556 1748
L 2	0-6	30 9	0305	NIGHT	22	22.6-22.7	22.7	22.7	GRADUAL	-	29.3-29.9	29.6	29.3	3546 7524	0556 1748
L 3	0-15	30 9	0157	NIGHT	34	21.7-22.5	22.3	22.5	-	-	28.7-31.3	30.2	29.6	3546 7517	0555 1747
L 3	18-24	30 9	0157	NIGHT	34	20.3-21.6	21.1	22.5	-	-	31.8-32.8	32.3	28.6	3546 7517	0555 1747
L 4	0-15	30 9	1050	DAY	45	23.1-25.5	24.2	23.1	STRONG 25-30	31.7-34.7	33.1	21.6	3545 7505	0554 1746	
L 4	18-33	30 9	1050	DAY	45	10.5-25.4	19.5	23.1	STRONG 25-30	33.6-35.9	34.9	31.6	3545 7505	0554 1746	
L 5	0-15	30 9	1221	DAY	376	23.2-24.3	23.9	23.2	-	-	32.1-33.6	32.2	32.0	3545 7452	0553 1745
L 5	18-33	30 9	1221	DAY	376	19.2-25.2	23.8	23.2	-	-	33.6-34.8	34.3	32.0	3545 7452	0553 1745
M 1	0-6	28 9	1608	DAY	14	23.6-23.8	23.8	23.8	NONE	-	31.6-31.0	31.0	31.0	3518 7525	0554 1751
M 2	0-6	28 9	1928	NIGHT	19	23.2-23.3	23.3	23.3	WEAK 12-17	31.0-31.1	31.0	31.0	3516 7523	0554 1751	
M 3	0-15	28 9	2036	NIGHT	26	22.3-24.3	22.7	22.3	WEAK 10-16	31.6-33.4	31.5	31.0	3514 7518	0553 1750	
M 4	0-15	28 9	2324	NIGHT	58	23.3-25.2	24.4	23.3	GRADUAL	-	31.4-35.1	33.2	31.4	3512 7512	0552 1750
M 5	0-15	29 9	0031	NIGHT	356	23.5-25.6	24.6	23.5	WEAK 2-8	31.6-35.3	32.7	31.6	3510 7507	0553 1747	
M 5	18-33	29 9	0031	NIGHT	356	25.4-25.7	25.6	23.5	WEAK 2-8	35.1-25.4	35.3	31.6	3510 7507	0552 1747	
N 1	0-6	29 9	0925	DAY	22	25.0-25.0	25.0	25.0	NONE	-	34.3-34.4	34.3	34.3	3501 7557	0553 1747
N 2	0-15	29 9	0722	DAY	25	25.0-25.5	25.1	25.0	WEAK 19-22	34.6-35.0	34.8	34.6	3456 7555	0552 1748	
N 3	0-15	29 9	0535	DAWN	29	25.5-25.6	25.5	25.5	WEAK 24-28	35.2-35.4	35.3	35.1	3451 7552	0556 1751	
N 4	0-15	29 9	1508	DAY	45	25.4-25.5	25.4	25.5	WEAK 32-41	34.6-34.9	34.9	34.9	3442 7548	0556 1751	
N 4	18-33	29 9	1508	DAY	45	24.6-25.4	25.3	25.5	WEAK 32-41	34.6-34.9	34.8	34.9	3442 7548	0556 1751	
N 5	0-15	29 9	1716	DAY	172	26.5-26.6	26.6	26.6	GRADUAL	-	35.1-35.3	35.2	35.1	3433 7544	0556 1751
N 5	18-33	29 9	1716	DAY	172	24.6-26.2	25.4	26.6	GRADUAL	-	35.0-35.2	35.1	35.1	3433 7544	0556 1751
P 1	0-6	20 10	0724	DAY	16	21.5-21.9	21.9	21.9	NONE	-	34.2-34.3	34.3	34.3	3438 7640	0616 1727
P 2	0-6	20 10	0831	DAY	15	21.5-22.1	22.0	21.9	NONE	-	34.1-34.3	34.2	34.2	3434 7637	0615 1726
P 3	0-6	20 10	1000	DAY	14	22.1-22.1	22.1	22.1	NONE	-	34.2-34.3	34.3	34.3	3425 7636	0615 1726
P 4	0-15	20 10	1123	DAY	31	21.6-23.0	23.0	23.0	NONE	-	34.8-34.9	34.8	34.8	3417 7622	0615 1726
P 4	18-24	20 10	1133	DAY	31	22.9-22.9	22.9	23.0	NONE	-	34.8-34.9	34.9	34.8	3417 7623	0615 1726
P 5	0-15	20 10	1338	DAY	92	25.4-25.4	25.4	25.4	GRADUAL	-	34.5-25.1	35.0	35.0	3404 7613	0614 1726
P 5	18-33	20 10	1338	DAY	92	24.5-25.4	25.3	25.4	GRADUAL	-	34.9-35.0	34.9	35.0	3404 7613	0614 1726

TABLE 2. (continued)

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COAST STA.	TOW DEPTH (M)	DATE 1966 D M	TOW SIGHT H M	LIGHT COND.	WATER DEPTH (M)	***** RANGE	TEMPERATURE (C) MEAN SURF.	***** BOT.	THERMOCLINE DEGREE DEPTH (M)	**** RANGE	SALINITY (0/00) MEAN	**** SURF.	POSITION LAT. LONG.	** SUN ** RISE SET		
H 1	0-6	12 11	1312	DAY	10	14.7-14.9	14.8	14.9	14.7	NONE	-	32.0-32.2	32.1	32.0	3734 7533	0636 1654
H 2	0-6	12 11	1141	DAY	20	15.1-15.2	15.1	15.2	15.2	NONE	-	32.3-32.6	32.5	32.3	3732 7526	0638 1654
H 3	0-6	12 11	1041	DAY	25	15.8-15.9	15.9	15.8	15.3	NONE	-	32.6-32.8	32.7	32.5	3730 7522	0637 1653
H 4	0-15	12 11	0918	DAY	25	14.5-15.6	15.2	15.6	14.7	GRADUAL	-	32.8-33.4	33.1	32.8	3727 7510	0637 1653
H 5	0-15	12 11	0754	DAY	42	14.4-15.3	14.8	15.3	14.0	GRADUAL	-	33.3-33.6	33.5	33.3	3723 7458	0636 1652
H 5	18-33	12 11	0754	DAY	42	14.0-14.3	14.2	15.3	14.0	GRADUAL	-	32.8-33.9	33.9	33.3	3723 7458	0636 1652
H 6	0-15	12 11	0609	DAWN	83	14.4-15.6	14.7	14.5	10.0	STRONG	56-70	33.6-34.9	33.9	33.8	3718 7440	0635 1651
H 6	18-33	12 11	0609	DAWN	83	16.0-16.7	16.5	14.5	10.0	STRONG	56-70	35.1-35.3	35.3	33.8	3718 7440	0635 1651
H 7	0-15	12 11	0503	NIGHT	134	14.5-15.1	14.7	14.5	11.2	STRONG	43-52	33.8-34.6	34.0	33.7	3716 7434	0634 1650
H 7	18-33	12 11	0503	NIGHT	134	15.3-16.3	15.9	14.5	11.2	STRONG	43-52	34.7-35.2	35.0	33.7	3716 7434	0634 1650
J 1	0-6	12 11	2327	NIGHT	14	14.8-15.0	14.9	14.8	15.2	NONE	-	28.6-28.7	28.7	28.6	3655 7558	0635 1653
J 2	0-6	13 11	0336	NIGHT	10	15.1-15.3	15.2	15.1	15.2	NONE	-	31.7-32.0	31.8	32.0	3655 7552	0639 1655
J 3	0-6	13 11	0202	NIGHT	16	15.1-15.2	15.1	15.2	15.3	NONE	-	32.3-32.4	32.4	32.2	3654 7545	0635 1655
J 4	0-15	14 11	1348	DAY	22	14.5-15.0	14.9	14.9	15.0	NONE	-	33.2-33.3	33.2	33.2	3653 7533	0639 1654
J 5	0-15	14 11	1227	NIGHT	26	14.6-14.7	14.6	14.6	14.4	NONE	-	33.7-33.9	33.8	33.8	3652 7521	0638 1653
J 6	0-15	14 11	1035	NIGHT	35	14.2-14.4	14.3	14.3	14.3	NONE	-	34.4-34.5	34.4	34.3	3650 7502	0637 1652
J 6	18-33	14 11	1035	NIGHT	35	14.5-14.6	14.5	14.3	14.3	NONE	-	34.4-34.5	34.4	34.3	3650 7502	0637 1652
J 7	0-15	14 11	2329	NIGHT	81	13.8-13.9	13.8	13.8	11.9	WEAK	37-49	34.2-34.5	34.4	34.5	3648 7444	0636 1651
J 7	18-33	14 11	2329	NIGHT	81	14.0-15.0	14.3	13.8	11.9	WEAK	37-49	34.2-35.2	34.5	34.5	3648 7444	0636 1651
K 1	0-6	13 11	0842	DAY	15	14.5-14.8	14.5	14.5	14.6	NONE	-	33.2-33.3	33.2	33.1	3623 7548	0642 1653
K 2	0-15	13 11	0929	DAY	20	14.1-14.7	14.4	14.2	14.7	NONE	-	32.3-33.8	33.2	32.3	3623 7542	0643 1653
K 3	0-15	13 11	1022	DAY	24	14.7-14.7	14.7	14.7	14.9	NONE	-	33.6-34.0	33.8	33.7	3622 7536	0642 1652
K 4	0-15	13 11	0325	NIGHT	33	14.5-14.7	14.6	14.7	14.5	NONE	-	34.0-34.2	34.1	34.1	3622 7523	0642 1652
K 4	18-24	13 11	0325	NIGHT	33	14.4-14.6	14.5	14.7	14.5	NONE	-	34.1-34.1	34.1	34.1	3622 7522	0642 1652
K 5	0-15	13 11	0155	NIGHT	37	14.5-14.8	14.7	14.8	13.9	NONE	-	34.2-34.4	34.3	34.3	3622 7511	0641 1651
K 5	18-24	13 11	0155	NIGHT	37	14.4-14.5	14.4	14.8	13.9	NONE	-	34.2-34.2	34.2	34.3	3622 7511	0641 1651
K 6	0-15	17 11	2236	NIGHT	47	13.5-14.2	14.0	14.2	14.0	NONE	-	34.6-34.9	34.9	34.6	3621 7458	0639 1650
K 6	18-33	17 11	2236	NIGHT	47	13.9-14.1	14.0	14.2	14.0	NONE	-	34.6-34.9	34.8	34.6	3621 7458	0639 1650
K 7	0-15	17 11	2127	NIGHT	397	13.8-14.1	14.0	14.1	11.6	-	-	34.7-34.8	34.8	34.7	3621 7446	0638 1649
K 7	18-33	17 11	2127	NIGHT	397	13.8-13.7	13.7	14.1	11.6	-	-	34.8-35.0	34.9	34.7	3621 7446	0638 1649
L 1	0-6	17 11	0828	DAY	21	14.2-14.4	14.3	14.2	15.1	NONE	-	31.0-31.6	31.2	30.9	3546 7530	0640 1654
L 2	0-6	17 11	0754	DAY	21	15.0-15.2	15.1	15.2	15.0	NONE	-	33.3-33.5	33.4	33.2	3546 7524	0640 1654
L 3	0-15	17 11	0707	DAY	32	14.9-15.1	15.0	15.1	15.0	NONE	-	33.8-33.8	33.7	33.7	3546 7517	0639 1653
L 3	18-24	17 11	0707	DAY	32	14.8-15.0	14.9	15.1	15.0	NONE	-	33.3-33.8	33.5	33.7	3546 7517	0639 1653
L 4	0-15	17 11	1357	DAY	41	14.9-15.3	15.1	15.3	14.6	NONE	-	34.2-34.6	34.4	34.3	3545 7505	0637 1652
L 4	18-33	17 11	1357	DAY	41	14.8-14.8	14.7	15.3	14.6	NONE	-	34.6-34.7	34.6	34.3	3545 7505	0637 1652
L 5	0-15	17 11	1545	DAY	355	14.9-15.1	14.9	15.0	11.7	GRADUAL	-	34.5-35.3	34.8	34.7	3545 7452	0636 1651
L 5	18-33	17 11	1545	DAY	355	15.3-15.5	15.5	15.0	11.7	GRADUAL	-	34.4-35.6	35.5	34.7	3545 7452	0636 1651
M 1	0-6	16 11	1530	DAY	26	14.8-14.9	14.8	14.9	14.7	NONE	-	33.4-33.5	33.5	33.4	3518 7529	0638 1655
M 2	0-6	16 11	1440	DAY	20	14.5-15.1	15.0	15.1	15.0	NONE	-	33.7-33.8	33.7	33.6	3516 7523	0638 1656
M 3	0-15	17 11	0020	NIGHT	30	15.9-16.2	16.0	16.0	16.1	NONE	-	34.0-34.3	34.2	34.1	3514 7518	0637 1654
M 4	0-6	16 11	2339	NIGHT	41	17.5-17.6	17.5	17.6	17.9	NONE	-	35.0-35.1	35.1	34.9	3512 7512	0636 1655
M 5	0-15	15 11	2248	NIGHT	138	18.8-18.8	18.8	18.8	19.2	NONE	-	35.5-35.7	35.6	35.5	3510 7507	0635 1654
M 5	18-33	16 11	2248	NIGHT	138	18.9-19.1	19.0	18.8	19.2	NONE	-	35.6-35.8	35.7	35.5	3510 7507	0635 1654
N 1	0-6	16 11	1034	DAY	25	16.4-16.4	16.4	16.4	16.4	NONE	-	34.0-34.0	34.0	34.0	3501 7557	0635 1654
N 2	0-15	16 11	0937	DAY	26	18.6-18.8	18.7	18.8	18.9	NONE	-	35.5-35.6	35.6	35.5	3456 7555	0635 1654
N 3	0-15	16 11	0833	DAY	30	19.3-19.5	19.4	19.3	19.4	NONE	-	35.6-35.8	35.8	35.6	3451 7552	0638 1659
N 3	18-24	16 11	0833	DAY	30	19.4-19.5	19.4	19.3	19.4	NONE	-	35.6-35.8	35.9	35.6	3451 7552	0638 1658
N 4	0-15	16 11	0706	DAY	48	22.8-23.2	23.0	22.9	23.2	NONE	-	36.9-37.0	37.0	37.0	3442 7546	0637 1658
N 4	18-33	16 11	0706	DAY	48	23.0-23.3	23.2	22.9	23.2	NONE	-	36.8-37.0	36.9	37.0	3442 7548	0637 1658
N 5	0-15	16 11	0318	NIGHT	261	24.1-24.2	24.1	24.2	13.4	GRADUAL	-	37.4-37.6	37.5	37.5	3433 7544	0637 1658
N 5	18-33	16 11	0318	NIGHT	261	23.8-24.1	24.0	24.2	13.4	GRADUAL	-	37.2-37.5	37.3	37.5	3433 7544	0637 1658
P 1	0-6	15 11	1957	NIGHT	16	16.0-16.1	16.1	16.0	16.3	NONE	-	34.7-34.9	34.8	34.8	3438 7640	0640 1703
P 2	0-6	15 11	1906	NIGHT	17	16.7-17.0	16.8	17.0	17.1	NONE	-	34.6-34.9	34.7	34.8	3434 7537	0635 1702
P 3	0-6	15 11	1753	NIGHT	15	17.7-17.7	17.7	17.7	17.9	NONE	-	34.7-34.8	34.7	34.7	3425 7636	0635 1702
P 4	0-15	15 11	1617	DAY	32	20.8-21.4	21.1	20.8	21.4	NONE	-	36.2-36.3	36.2	36.2	3417 7623	0635 1703
P 4	18-24	15 11	1617	DAY	32	21.4-21.5	21.4	20.8	21.4	NONE	-	36.0-36.1	36.0	36.2	3417 7523	0635 1703
P 5	0-15	15 11	1428	DAY	115	23.0-23.1	23.1	23.0	22.2	NONE	-	36.8-37.0	36.9	36.9	3404 7613	0637 1702
P 5	18-33	15 11	1428	DAY	115	23.1-23.1	23.1	23.0	22.2	NONE	-	36.8-38.0	37.2	36.9	3404 7513	0637 1702

Table 3. Eggs and larvae of fishes identified from R. V. Dolphin ichthyoplankton survey, listed by station.

CRUISE DATE		***** LARVAE *****					***** LARVAE *****						
D65 4 1965		NUMBER	LENGTHS (MM)		NO.	NUMBER	LENGTHS (MM)		NO.				
STA.	D M	TOTAL MEAS.	MEAN	RANGE	EGGS	TOTAL MEAS.	MEAN	RANGE	EGGS	LARVAE	PER 10 ³	EGGS	
C 1	C3 12	SAMPLING DEPTH	0-6M										
	MERLUCCIIUS BILINEARIS	1				0				0.1		0.0	
	PARALICHTHYS DENTATUS	1	1	5.2	SL	0				0.1		0.0	
	SCOPHTHALMUS AQUOSUS	5	2	4.2	4.1-4.2 SL					0.6			
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED													
.....													
C 2	C3 12	SAMPLING DEPTH	0-15M										
	BREVOORTIA TYRANNUS	1	1	18.7	TL					0.3			
	ENCYCLYORUS CIMBRIUS	1	1	5.0	SL	0				0.3		0.0	
	UPOPHYCIS SP.	1	1	4.3	NL					0.3			
	PARALICHTHYS DENTATUS	2	2	7.7	6.4-9.1 SL	0				0.6		0.0	
	SCOPHTHALMUS AQUOSUS	8	8	6.5	4.9-9.7 SL					2.4			
.....													
C 3	C4 12	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M					
	CLUPEA HARENGUS HARENGUS					0	1	1	17.9	TL		0.3	
	ENCYCLYORUS CIMBRIUS	2	2	8.0	6.3-9.6 SL	147				57		0.7	
	GADUS MORHUA					0				0		0.0	
	MERLUCCIIUS BILINEARIS					0	1	1	6.0	NL	0	0.3	
	PARALICHTHYS DENTATUS	2	2	10.8	10.1-11.5 SL	0	2	2	8.6	8.2-9.1 SL	0	1.3	
	SCOPHTHALMUS AQUOSUS	2	2	6.5	6.4-6.6 SL	0	27	18	6.9	3.6-32.1 SL	0	9.6	
.....													
C 4	C4 12	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M					
	ENCYCLYORUS CIMBRIUS	1	1	3.7	SL	0				0		0.3	
	GADUS MORHUA	10	8	5.3	3.5-6.5 SL	16	2	2	4.5	4.3-4.6 SL	38	3.7	
	UPOPHYCIS SP.						9	9	6.2	2.8-11.1 NL		17.5	
	MERLUCCIIUS BILINEARIS	2	2	4.6	4.2-5.0 NL	0	17	17	8.5	3.2-53.0 NL	0	3.0	
	ETROPUS MICROSTOMUS						1	1	5.9	SL		6.3	
	PARALICHTHYS DENTATUS	4	4	7.2	6.4-8.0 SL	0	13	13	7.2	4.9-9.4 SL	0	0.3	
	SCOPHTHALMUS AQUOSUS	8	6	5.2	4.5-6.5 SL	0	16	16	5.2	3.7-6.2 SL		5.5	
	ADDITIONAL LARVAE CAUGHT UNIDENTIFIED						UNIDENTIFIED					7.7	
.....													
C 5	C4 12	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M					
	UPOPHYCIS SP.	1	1	2.2	NL		4	4	4.6	3.9-5.1 NL		1.6	
	MERLUCCIIUS BILINEARIS	13	11	6.1	4.3-7.8 NL	0	20	15	6.3	3.7-38.5 NL	0	10.6	
	PARALICHTHYS DENTATUS	1	1	8.8	SL	0	2	2	9.5	8.9-10.2 SL	0	1.0	
.....													
C 6	C4 12	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M					
	UPOPHYCIS SP.	4	4	5.6	4.5-7.2 NL							1.3	
	MERLUCCIIUS BILINEARIS	6	6	8.3	7.0-8.9 NL	0	27	27	7.4	4.4-5.6 NL	0	10.8	
	PARALICHTHYS DENTATUS	2	2	7.7	7.3-8.2 SL	0	2	2	8.6	7.9-9.3 SL	0	1.3	
	SCOPHTHALMUS AQUOSUS						1	1	4.3	SL		0.3	
.....													
C 7	C4 12	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M					
	UPOPHYCIS SP.	5	4	6.6	5.7-7.2 NL		2	2	5.9	5.5-6.3 NL		2.2	
	MERLUCCIIUS BILINEARIS					0	26	25	7.7	4.6-9.9 NL	0	8.7	
	CITHARICHTHYS ARCTIFRONS						2	2	6.7	5.5-7.8 SL		0.7	
	PARALICHTHYS DENTATUS	1	1	7.5	SL	0	2	2	8.2	7.8-8.6 SL	0	1.0	
.....													
C 8	C4 12	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M					
	UPOPHYCIS SP.	1	1	6.9	NL							0.3	
.....													
C 1	C5 12	SAMPLING DEPTH	0-6M										
	BREVOORTIA TYRANNUS	6	6	18.7	15.4-23.8 TL							0.7	
	PARALICHTHYS DENTATUS	2	2	8.8	8.3-9.4 SL	0						0.2	
	SCOPHTHALMUS AQUOSUS	39	38	4.4	2.7-8.6 SL							4.7	
	ADDITIONAL LARVAE CAUGHT GOBIIDAE												
.....													
D 2	C5 12	SAMPLING DEPTH	0-9M										
	BREVOORTIA TYRANNUS	1	1	20.2	TL							0.2	
	PARALICHTHYS DENTATUS	1	1	8.7	SL	0						0.2	
	SCOPHTHALMUS AQUOSUS	68	68	4.9	3.3-6.7 SL							12.4	
.....													
D 3	C5 12	SAMPLING DEPTH	0-15M										
	GADUS MORHUA	16	14	4.6	3.4-6.8 SL	92						4.8	
	UPOPHYCIS SP.	4	3	6.3	3.9-10.9 NL							1.2	
	MERLUCCIIUS BILINEARIS	1	1	4.2	NL	0						0.3	
	PARALICHTHYS DENTATUS	14	14	6.0	3.8-11.2 SL	0						4.2	
	SCOPHTHALMUS AQUOSUS	171	50	4.2	3.1-5.3 SL							51.8	

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CRUISE DATE		***** LARVAE *****					***** LARVAE *****		***** LARVAE *****		***** LARVAE *****		***** LARVAE *****	
STA.	D M	NUMBER	LENGTHS (MM)	NO.		NUMBER	LENGTHS (MM)	NO.		NUMBER	LENGTHS (MM)	NO.		
SPECIES ANALYZED		TOTAL MEAS.	MEAN RANGE MEAS.	EGGS		TOTAL MEAS.	MEAN RANGE MEAS.	EGGS		TOTAL MEAS.	MEAN RANGE MEAS.	EGGS		
C 4	C 5 12	SAMPLING DEPTH	0-15M			SAMPLING DEPTH	18-24M			SAMPLING DEPTH	18-24M			
BREVORTIA TYFANNUS		1	1 27.7	TL		1	1 16.9	TL				0.2		
CLIFFEA HARENGUS HARENGUS		1	1 37.3	TL								0.3		
ENGRAULIS EURYSTOLE		3	3 5.5 4.9-6.5	SL	0	13	13 4.4 3.2-5.3	SL	50			3.0	8.1	
GADUS MORHUA		7	5 4.7 3.2-7.3	NL	0	6	5 3.7 3.1-4.4	NL	0			3.1	0.0	
UPHRYCHIS SP.		1			0				0			0.3	0.0	
MERLUCCIIUS BILINEARIS												0.2		
CITHARICHTHYS ARCTIFRONS						1	1 5.8	SL				0.2		
PARALICHTHYS DENTATUS		37	36 6.6 4.5-9.6	SL	0	19	19 5.7 3.4-8.9	SL	0			14.4	0.0	
SCOPHTHALMUS AQUOSUS		191	50 4.8 3.0-6.1	SL		203	50 4.5 3.0-7.8	SL				51.5		
.....														
C 5	C 5 12	SAMPLING DEPTH	0-15M			SAMPLING DEPTH	18-33M			SAMPLING DEPTH	18-33M			
GADUS MORHUA		5	4 4.4 3.5-5.8	SL	55	19	17 4.2 3.3-5.3	SL	77			7.8	42.2	
UPHRYCHIS SP.		6	6 4.3 3.9-5.1	NL		9	5 4.6 2.8-8.0	NL	0			4.8		
MERLUCCIIUS BILINEARIS		3	3 4.4 3.7-5.1	NL	0				0			1.0	0.0	
PARALICHTHYS DENTATUS		38	38 6.3 3.8-8.4	SL	0	53	51 5.5 3.9-7.4	SL	0			29.1	0.0	
SCOPHTHALMUS AQUOSUS		155	50 4.7 2.9-7.7	SL		218	50 4.1 2.7-6.9	SL				119.2		
.....														
ADDITIONAL LARVAE CAUGHT														
.....														
C 6	C 5 12	SAMPLING DEPTH	0-15M			SAMPLING DEPTH	18-33M			SAMPLING DEPTH	18-33M			
GADUS MORHUA		2	2 5.5 5.2-5.8	SL	0	9	8 5.3 4.4-6.8	SL	0			3.6	0.0	
UPHRYCHIS SP.		2	2 3.7 3.6-3.9	NL		4	4 5.4 3.9-6.9	NL				1.9		
MERLUCCIIUS BILINEARIS		10	8 3.7 3.1-5.0	NL	0	28	27 3.9 2.4-5.1	NL	0			12.3	0.0	
CITHARICHTHYS ARCTIFRONS		2	2 4.6 3.1-6.1	SL								0.7		
PARALICHTHYS DENTATUS		40	40 6.4 3.1-8.0	SL	0	25	25 5.9 3.8-7.7	SL	0			20.3	0.0	
SCOPHTHALMUS AQUOSUS		56	53 4.1 2.8-5.7	SL		139	50 4.1 2.9-5.7	SL				63.1		
.....														
ADDITIONAL LARVAE CAUGHT														
.....														
C 7	C 6 12	SAMPLING DEPTH	0-15M			SAMPLING DEPTH	18-33M			SAMPLING DEPTH	18-33M			
UPHRYCHIS SP.		1	1 6.1	NL								0.3		
MERLUCCIIUS BILINEARIS		3	3 24.5 10.6-33.2	NL	0	2	2 36.5 20.5-52.5	NL	0			1.6	0.0	
CITHARICHTHYS ARCTIFRONS		1	1 8.1	SL		2	2 7.4 6.4-8.3	SL				1.0		
PARALICHTHYS DENTATUS		3	3 7.0 6.4-8.3	SL	0				0			1.0	0.0	
SCOPHTHALMUS AQUOSUS		3	2 4.9 4.5-5.3	SL		7	5 4.3 4.0-4.7	SL				3.2		
.....														
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED														

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CRUISE DATE		***** LARVAE *****					***** LARVAE *****							
STA.	TIME	NUMBER	LENGTHS (MM)		NO.	NUMBER	LENGTHS (MM)		NO.	NO.	PER	10M		
		TOTAL	MEAS.	MEAN	RANGE	EGGS	TOTAL	MEAS.	MEAN	RANGE	EGGS	LARVAE	EGGS	
E 6 06 12		SAMPLING	DEPTH	0-15M			SAMPLING	DEPTH	18-24M					
GADUS MORHUA						1					0	0.0	0.3	
UROPHYCIS SP.							1	1	4.2		NL	0.2		
MERLUCCIIUS BILINEARIS		3	3	3.4	2.7- 4.2	NL	3	3	3.7	3.4- 3.9	NL	0	1.4	0.0
CITHARICHTHYS ARCTIFRONS		1	1	5.6		SL						0.3		
PARALICHTHYS DENTATUS		6	6	6.0	3.4- 7.2	SL	0	7	7	6.0	4.7- 8.2	SL	3.0	0.0
SCOPHTHALMUS AQUOSUS		7	7	4.5	3.0- 6.1	SL		7	5	4.6	3.6- 6.0	SL	3.3	
.....														
F 7 06 12		SAMPLING	DEPTH	0-15M			SAMPLING	DEPTH	1E-33M					
UROPHYCIS AMERICANUS		1	1	6.8		TL						0.3		
UROPHYCIS SP.		2	2	6.3	4.2- 8.5	NL		1	1	6.4		NL	0.9	
MERLUCCIIUS BILINEARIS		2	2	9.4	8.5-10.4	NL	0	4	4	7.6	5.2-10.8	NL	1.9	0.0
CITHARICHTHYS ARCTIFRONS		1	1	10.0		SL		3	3	9.1	8.2-10.1	SL	1.3	
PARALICHTHYS DENTATUS							0	2	2	5.4	8.7-10.1	SL	0.7	0.0
.....														
F 8 06 12		SAMPLING	DEPTH	0-15M			SAMPLING	DEPTH	18-33M					
GERATOSCOPELUS MAHERENSIS		1	1	14.1		SL						0.3		
GADUS MORHUA		2					0					0.7	0.0	
PARALICHTHYS DENTATUS							0	2	1	8.4		0.7	0.0	
SCOPHTHALMUS AQUOSUS		1										0.3		
ADDITIONAL LARVAE CAUGHT		COBIIDAE												
.....														
F 1 09 12		SAMPLING	DEPTH	0- 9M										
BREVOORTIA TYPANNUS		2	2	30.0	29.4-30.6	TL						0.4		
ANCHOA MITCHELLI		39	39	28.7	14.6-45.9	TL						7.1		
SCOPHTHALMUS AQUOSUS		1	1	7.7		SL						0.2		
ADDITIONAL LARVAE CAUGHT		SYNGNATHICAE												
.....														
F 2 09 12		SAMPLING	DEPTH	0- 9M										
BREVOORTIA TYPANNUS		1	1	28.3		TL						0.2		
ANCHOA MITCHELLI		10	10	28.4	21.4-32.1	TL						1.8		
PARALICHTHYS DENTATUS		1	1	13.5		SL	0					0.2	0.0	
SCOPHTHALMUS AQUOSUS		3	3	10.4	7.7-12.0	SL						0.5		
ADDITIONAL LARVAE CAUGHT		SYNGNATHICAE												
.....														
F 3 09 12		SAMPLING	DEPTH	0-15M										
GADUS MORHUA		1					0					0.3	0.0	
PARALICHTHYS DENTATUS		2	2	9.6	9.0-10.3	SL	0					0.6	0.0	
SCOPHTHALMUS AQUOSUS		16	16	4.6	2.7- 6.0	SL						4.8		
.....														
F 4 10 12		SAMPLING	DEPTH	0-15M										
BREVOORTIA TYPANNUS		1	1	21.0		TL						0.3		
GADUS MORHUA		11	11	3.8	3.0- 4.5	SL	141					3.3	42.7	
MERLUCCIIUS BILINEARIS		1	1	4.5		NL	0					0.3	0.0	
PARALICHTHYS DENTATUS		20	20	6.3	3.9- 7.7	SL	0					6.1	0.0	
SCOPHTHALMUS AQUOSUS		212	50	4.3	2.8- 5.4	SL						64.2		
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED												
.....														
F 5 10 12		SAMPLING	DEPTH	0-15M			SAMPLING	DEPTH	18-33M					
GADUS MORHUA		1	1	3.9		SL	36	9	7	4.6	4.2- 4.9	SL	39	23.8
MERLUCCIIUS BILINEARIS							0	2	2	3.3	2.8- 3.8	NL	0	0.0
PARALICHTHYS DENTATUS		1	1	4.2		SL	0	14	14	5.2	3.8- 8.1	SL	0	0.0
SCOPHTHALMUS AQUOSUS		4	3	3.5	2.8- 4.7	SL		15	13	4.1	2.7- 5.9	SL		6.2
.....														
F 6 10 12		SAMPLING	DEPTH	0-15M			SAMPLING	DEPTH	18-33M					
UROPHYCIS SP.		4	4	5.7	4.3- 7.2	NL						1.3		
MERLUCCIIUS BILINEARIS							0	2	2	4.8	3.9- 5.8	NL	0	0.0
CITHARICHTHYS ARCTIFRONS		1	1	8.7		SL		1	1	6.5		SL	0	0.6
PARALICHTHYS DENTATUS							0	2	2	8.5	8.0- 9.0	SL	0	0.7
SCOPHTHALMUS AQUOSUS								4	4	5.4	4.2- 7.7	SL		1.3
.....														
F 7 10 12		SAMPLING	DEPTH	0-15M			SAMPLING	DEPTH	18-33M					
UROPHYCIS SP.		2	2	6.4	4.7- 8.2	NL						0.7		
MERLUCCIIUS BILINEARIS		2	2	9.8	6.0-13.6	NL	0	7	6	7.3	3.8-11.0	NL	0	2.9
CITHARICHTHYS ARCTIFRONS		1	1	7.4		SL		3	3	8.7	7.2-10.4	SL		1.3
PARALICHTHYS DENTATUS		1	1	6.9		SL	0	1	1	7.4		SL	0	0.6
.....														
G 1 11 12		SAMPLING	DEPTH	0- 3M										
ANCHOA MITCHELLI		9	9	40.4	33.1-45.6	TL						0.5		
SCOPHTHALMUS AQUOSUS		7	7	4.3	2.6- 6.5	SL						0.4		
ADDITIONAL LARVAE CAUGHT		SYNGNATHICAE												
.....														
G 2 11 12		SAMPLING	DEPTH	0- 3M										
PARALICHTHYS DENTATUS		2	2	4.7	4.4- 5.0	SL	0					0.1	0.0	
SCOPHTHALMUS AQUOSUS		47	47	4.0	2.4- 5.6	SL						2.8		
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED												

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[illegible]

TABLE 3. (continued)

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CRUISE DATE	***** LARVAE *****	***** LARVAE *****	2									
065 4 1965	NUMBER	LENGTHS (MM)	NO.									
STA. NO.	TOTAL MEAS.	MEAN	RANGE	MEAS.	NO. EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	NO. EGGS	NO. PER 10M	
J 2 12 12	SAMPLING DEPTH	0- 3M									EGGS	
BREVOORTIA TYRANNUS	1	1	17.4		TL						0.1	
PARALICHTHYS DENTATUS	1	1	8.6		SL	0					0.1	
SCOPHTHALMUS AQUOSUS	1	1	4.0		SL						0.1	
ADDITIONAL LARVAE CAUGHT SYNGNATHICAE												
GOBIOIDAE												
.....												
J 3 12 12	SAMPLING DEPTH	0- 6M										
BREVOORTIA TYRANNUS	5	5	16.5	13.7-18.5	TL						0.6	
SCOPHTHALMUS AQUOSUS	1	1	2.6		SL						0.1	
.....												
J 4 12 12	SAMPLING DEPTH	0- 6M										
BREVOORTIA TYRANNUS	1	1	10.1		TL						0.1	
UPHYPHICIS SP.	5	5	6.5	4.5- 7.9	NL						0.6	
PARALICHTHYS DENTATUS	12	12	5.4	4.1- 7.3	SL	0					1.5	
SCOPHTHALMUS AQUOSUS	3	3	4.3	3.4- 5.2	SL						0.4	
.....												
J 5 12 12	SAMPLING DEPTH	0-15M										
BREVOORTIA TYRANNUS	2	2	15.7	15.6-15.8	TL						0.6	
MERLUCCIVUS BILINEARIS	1	1	6.8		NL	0					0.3	
PARALICHTHYS DENTATUS	1	1	5.6		SL	0					0.3	
.....												
J 6 12 12	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-24M					
UPHYPHICIS SP.						2	2	12.3	4.7-20.0	NL	0	
MERLUCCIVUS BILINEARIS						2	2	7.3	5.8- 8.9	NL	0	
.....												
J 7 11 12	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M					
.....												
K 1 12 12	SAMPLING DEPTH	0- 3M										
SCOPHTHALMUS AQUOSUS	3	3	3.0	2.7- 3.5	SL						0.2	
ADDITIONAL LARVAE CAUGHT SYNGNATHICAE												
.....												
K 2 12 12	SAMPLING DEPTH	0- 6M										
.....												
K 3 13 12	SAMPLING DEPTH	0-15M										
BREVOORTIA TYRANNUS	1	1	15.1		TL						0.3	
MICROPYGON UNULATUS	1	1	4.9		SL						0.3	
PARALICHTHYS DENTATUS	27	27	4.5	3.4- 8.5	SL	0					8.2	
SCOPHTHALMUS AQUOSUS	8	8	3.0	2.7- 3.6	SL						2.4	
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED												
.....												
K 4 13 12	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-24M					
BREVOORTIA TYRANNUS	7	7	15.3	13.7-19.5	TL	3	3	13.6	11.4-15.0	TL	2.7	
UPHYPHICIS SP.	20	11	10.6	6.7-20.6	NL	5	5	15.8	10.6-18.2	NL	6.9	
ETREPOS MICROSTOMUS	1	1	10.9		SL	2	2	5.4	7.7-11.1	SL	0.6	
PARALICHTHYS DENTATUS	11	11	6.5	4.8- 7.6	SL	0	4	4	6.2	5.4- 7.5	SL	4.0
SCOPHTHALMUS AQUOSUS						1	1	10.1		SL	0.2	
.....												
K 5 13 12	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-24M					
BREVOORTIA TYRANNUS	3	3	14.1	13.4-15.1	TL						1.0	
FRAGAULIS EURYSTOLE						6	4	36.1	32.5-39.0	TL	1.0	
SYMPLOPHCRUS VERANYI	1	1	9.8		SL						0.3	
UPHYPHICIS SP.	4	4	10.2	7.0-13.8	NL	7	6	13.8	5.9-22.5	NL	2.4	
MICROPYGON UNULATUS	1	1	5.5		SL	1	1	8.7		SL	0.5	
PARALICHTHYS DENTATUS	1	1	6.3		SL	0	12	12	7.7	6.3-10.9	SL	2.3
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED												
.....												
K 6 13 12	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M					
LECHTHYS AMERICANUS						1	1	3.0		TL	0.3	
UPHYPHICIS SP.	6	6	7.3	6.1- 9.9	NL						2.0	
MERLUCCIVUS BILINEARIS	2	2	7.4	6.0- 8.9	NL	0	2	2	7.5	6.3- 8.8	NL	1.3
PARALICHTHYS DENTATUS	6	6	7.3	6.5- 8.9	SL	0	3	3	8.6	7.9- 9.3	SL	2.8
.....												
K 7 13 12	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M					
PARALICHTHYS DENTATUS						0	1	1	5.6		SL	0
.....												
L 1 13 12	SAMPLING DEPTH	0- 6M										
EICIS SAURUS	1	1	32.8		NL						0.1	
BREVOORTIA TYRANNUS	1	1	15.2		TL						0.1	
LEIOSTOMUS XANTHURUS	1	1	11.9		SL						0.1	
MICROPYGON UNULATUS	1	1	5.8		SL						0.1	
PARALICHTHYS DENTATUS	1	1	13.1		SL	0					0.1	
SCOPHTHALMUS AQUOSUS	6	6	3.5	2.5- 4.8	SL						0.7	
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED												

TABLE 3. (continued)

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CRUISE DATE		***** LARVAE *****				***** LARVAE *****				2	
NO. 4 1965		NUMBER		LENGTHS (MM)		NUMBER		LENGTHS (MM)		NO. PER 10M	
STA. 04 SPECIES ANALYZED		TOTAL MEAS.		MEAN RANGE		TOTAL MEAS.		MEAN RANGE		EGGS	
L 2 13 12		SAMPLING DEPTH 0-6M									
UROPHYCIS SP.		1	1	3.3	NL					0.1	
LEICSTOMUS XANTHURUS		3	3	11.5 11.5-11.6	SL					0.4	
PARALICHTHYS DENTATUS		44	44	4.7 3.0-12.5	SL					5.3	0.0
SCOPHTHALMUS AQUOSUS		1	1	3.1	SL					0.1	
L 3 13 12		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 1E-24M					
ELOPS SAURUS						1	1	32.2	NL		0.2
BREVOORTIA TYRANNUS		1	1	18.3	TL	7	7	12.5 9.1-15.9	TL		1.5
ENGRAULIS EURYSTOE						3	3	24.4 23.1-25.9	TL		0.5
UROPHYCIS SP.		5	3	11.7 2.0-29.1	NL	17	8	6.6 4.8- 8.2	NL		4.3
LEICSTOMUS XANTHURUS		1	1	9.5	SL	2	2	6.1 2.8- 9.4	SL		0.6
MICROPOGON UNDULATUS		2	2	6.5 6.2- 6.8	SL	20	20	6.7 4.9- 8.4	SL		3.8
CITHARICHTHYS ARCTIFRONS		1	1	9.5	SL						0.3
PARALICHTHYS DENTATUS		4	4	8.2 4.8- 9.6	SL						7.0
SCOPHTHALMUS AQUOSUS		1	1	3.1	SL	36	36	6.7 4.4-12.1	SL	0	0.0
ADDITIONAL LARVAE CAUGHT		GOBIIIDAE				SYNOODONTIDAE					
						GOBIIIDAE					
						UNIDENTIFIED					
L 4 14 12		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
UROPHYCIS SP.		2	2	2.6 2.3- 3.0	NL	1	1	4.5	NL		0.9
MERLUCCIIUS BILINEARIS						1	1	4.1	NL	0	0.3
LEICSTOMUS XANTHURUS						1	1	5.3	SL		0.3
ETROPUS MICROSTOMUS		1	1	6.7	SL						0.3
PARALICHTHYS DENTATUS		1	1	6.0	SL					0	0.3
ADDITIONAL LARVAE CAUGHT		SYNOODONTIDAE				PARALEPIDIDAE					
						GOBIIIDAE					
L 5 14 12		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
LEICSTOMUS XANTHURUS		1	1	3.9	SL						0.3
PARALICHTHYS DENTATUS										0	0.0
ADDITIONAL LARVAE CAUGHT						SYNOODONTIDAE					
M 1 14 12		SAMPLING DEPTH 0-3M									
BREVOORTIA TYRANNUS		18	18	18.4 12.3-21.3	TL						1.1
MICROPOGON UNDULATUS		2	2	8.4 8.0- 8.9	SL						0.1
PARALICHTHYS DENTATUS		5	5	8.2 3.4-12.0	SL						0.3
SCOPHTHALMUS AQUOSUS		5	5	2.9 2.7- 3.2	SL						0.3
ADDITIONAL LARVAE CAUGHT		SPARIDAE									
M 2 14 12		SAMPLING DEPTH 0-9M									
BREVOORTIA TYRANNUS		79	26	14.2 10.1-18.4	TL						14.4
LEICSTOMUS XANTHURUS		2	2	9.2 9.2- 9.3	SL						0.4
MICROPOGON UNDULATUS		5	5	8.7 7.3-11.1	SL						0.9
PARALICHTHYS DENTATUS		15	13	3.4 2.9- 4.1	SL						2.7
SCOPHTHALMUS AQUOSUS		9	8	3.3 2.8- 4.5	SL						1.6
ADDITIONAL LARVAE CAUGHT		SPARIDAE									
M 3 14 12		SAMPLING DEPTH 0-15M									
BREVOORTIA TYRANNUS		181	77	10.6 5.1-16.3	TL						54.8
ENGRAULIS EURYSTOE		4									1.2
UROPHYCIS SP.		21	11	7.8 2.9-11.0	NL						6.4
LEICSTOMUS XANTHURUS		3	3	6.2 4.2- 7.6	SL						0.9
MICROPOGON UNDULATUS		5	5	7.9 7.3- 8.7	SL						1.5
PARALICHTHYS DENTATUS		69	69	3.8 2.7- 6.4	SL						20.9
SCOPHTHALMUS AQUOSUS		10	10	3.6 3.1- 4.5	SL						3.0
ADDITIONAL LARVAE CAUGHT		SYNOODONTIDAE									
		UNIDENTIFIED									
M 4 14 12		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-24M					
BREVOORTIA TYRANNUS		5	5	12.8 9.5-14.2	TL	1	1	11.9	TL		1.7
ENGRAULIS EURYSTOE		1	1	12.1	TL	1	1	12.3	TL		0.5
UROPHYCIS SP.		9	5	5.3 3.2- 5.7	NL						2.9
LEICSTOMUS XANTHURUS		2	2	4.1 4.0- 4.3	SL	35	35	7.0 5.1-10.9	SL		6.3
MICROPOGON UNDULATUS						11	11	5.9 3.7- 7.0	SL		1.8
BETHUS CELLATUS		1									0.3
ETROPUS MICROSTOMUS						1	1	4.7	SL		0.2
PARALICHTHYS DENTATUS		4	4	6.6 4.6-10.8	SL	31	31	6.5 3.6-10.9	SL	0	6.2
SCOPHTHALMUS AQUOSUS						1	1	4.5	SL		0.2
ADDITIONAL LARVAE CAUGHT		BREGMACEROTIDAE				SYNOODONTIDAE					
		SPARIDAE				OPHIOTIDAE					
						CARAPIDAE					
						SPARIDAE					
						UNIDENTIFIED					

TABLE 3. (continued)

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CRUISE DATE	***** LAPVAE *****					***** LARVAE *****					2	
065 4 1965	NUMBER	LENGTHS (MM)		NO.		NUMBER	LENGTHS (MM)		NO.			
STA. 7 M SPECIES ANALYZED	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	NO. PER 10M	
M 5 14 12	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M				EGGS	
OPHICHTHUS GOMESI						2	26.0	20.5-31.5	TL		0.7	
OPHICHTHUS OCELLATUS						2	21.5	18.5-24.5	TL		0.7	
PREODONTIA TYRANNUS	57	32	7.5	3.5-10.3	TL	4	5.7	7.8-11.5	TL		19.0	
ETELMEUS SAOI NA	7	7	11.1	8.1-13.8	TL	4	11.5	10.6-14.0	TL		3.4	
ENGFAJLIS EURYSTOE	5	5	4.3	3.7-5.4	TL	1	7.7		TL		1.8	
RENTHOSEMA SUBARBITALF						2	5.3	4.7-5.9	SL		0.7	
CERATOSCOPELLIS MAHERENSIS	1	1	8.8		SL						0.3	
CERATOSCOPELLUS WAMMINCI	3	3	4.7	4.4-5.2	SL						1.0	
DIAPHUS SP.						3	3	6.4	7.2-10.3	SL	1.0	
LAMEFANYCTUS ALATUS OR PHOTONOTUS	7	7	4.6	3.5-6.6	SL						2.3	
LAMEFANYCTUS ATER						1	1	5.4		SL	0.3	
MYCTOPHUM SP.	1	1	7.3		SL						0.3	
MYCTOPHUM AFFINE	1	1	4.6		SL						0.3	
ENCHELYOPLIS CIMBRIUS	3	3	2.2	1.8-2.5	SL						1.0	
UFOPHYCIS SP.	93	23	3.1	1.7-7.7	NL	9	9	3.8	2.7-4.9	NL	21.0	
UFOPHYCIS FLOPIDANUS	3	2	3.5	3.0-4.1	NL						1.0	
HEMANTHIA S. VIVANUS	2	2	4.5	4.0-5.0	SL						0.7	
LEICSTOMUS XANTHURUS	431	78	4.1	2.4-7.5	SL	83	82	4.4	2.8-6.6	SL	157.0	
MICROPOGON UNULATUS	72	70	3.7	2.4-5.7	SL	27	27	4.0	2.9-6.1	SL	30.6	
PEPRILUS TRIACANTHUS	1	1	3.4		SL	3	3	4.0	3.4-4.7	SL	1.3	
PRINCOTUS CAPELINUS	6	6	5.2	4.0-6.0	SL	3	3	6.6	6.3-6.9	SL	2.8	
ROTHUS OCELLATUS	62	25	4.6	2.7-7.9	SL	7	7	7.9	4.6-17.3	SL	20.9	
ETREPIUS MICROSTOMUS	58	58	4.0	2.1-5.7	SL	25	25	3.7	2.1-6.6	SL	25.7	
PARALICHTHYS DENTATUS	2	2	3.1	3.0-3.2	SL	5	5	4.2	3.4-5.7	SL	2.3	
SYACIUM PAPILLOSUM	2	2	6.8	6.6-7.0	SL						0.7	
SYMPHURUS SP.	10	10	6.3	3.9-9.6	SL	6	6	5.0	4.7-13.2	SL	5.0	
ADDIT IONAL LARVAE CAUGHT	OPHICHTHIDAE					OPHICHTHIDAE						
	STOMIATIDAE					VINCIGUERRIA SP.						
	SYNODONTIDAE					STOMIATIDAE						
	PARALEPIDIDAE					SYNODONTIDAE						
	MYCTOPHIDAE					CHLOROPHTHALMIDAE						
	BREGMACEROTIDAE					PARALEPIDIDAE						
	OPHIIDAE					MYCTOPHIDAE						
	CARAPIDAE					BREGMACEROTIDAE						
	FISTULARIIDAE					OPHIIDAE						
	SERRANIIDAE					CARAPIDAE						
	CARANGIIDAE					SERRANIIDAE						
	SPARIDAE					SPARIDAE						
	LABRIDAE OR SCARIDAE					CHAETODONTIDAE						
	CALLIONYMIDAE					LABRIDAE OR SCARIDAE						
	GOBIIDAE					MUGILIDAE						
	ACANTHURIDAE					CALLIONYMIDAE						
	STROMATEIDAE					GOBIIDAE						
	SCORPAENIIDAE					GEMPYLIDAE						
	UNIDENTIFIED					SCORPAENIIDAE						
						TRIGLIDAE						
						UNIDENTIFIED						
.....												
N 1 15 12	SAMPLING DEPTH 0-6M											
PREODONTIA TYRANNUS	5	5	15.3	12.5-19.0	TL						0.6	
LAMEFANYCTUS ALATUS OR PHOTONOTUS	1	1	4.2		SL						0.1	
LAMEFANYCTUS ATER	1	1	3.8		SL						0.1	
UFOPHYCIS SP.	4	3	2.8	2.4-3.2	NL						0.5	
HEMANTHIA S. VIVANUS	1	1	3.6		SL						0.1	
LEICSTOMUS XANTHURUS	47	45	4.8	2.8-7.8	SL						5.7	
MICROPOGON UNULATUS	15	15	4.0	2.8-5.8	SL						1.8	
PEPRILUS TRIACANTHUS	3	3	3.8	3.5-4.5	SL						0.4	
PRINCOTUS CAPELINUS	2	2	6.8	5.5-8.2	SL						0.2	
ROTHUS OCELLATUS	1	1	3.7		SL						0.1	
ETREPIUS MICROSTOMUS	5	5	4.3	2.4-5.9	SL						0.6	
PARALICHTHYS DENTATUS	5	5	3.4	3.1-3.7	SL	8					0.6	
SCOPHTHALMUS AQUINUS	5	5	3.3	2.8-3.9	SL						0.6	
SYMPHURUS SP.	2	2	4.2	3.6-4.8	SL						0.2	
ADDIT IONAL LARVAE CAUGHT	BREGMACEROTIDAE											
	OPHIIDAE											
	CARAPIDAE											
	SERRANIIDAE											
	ACANTHURIDAE											
	SPARIDAE											
	CALLIONYMIDAE											
	GOBIIDAE											
	UNIDENTIFIED											

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[illegible]

TABLE 3. (continued)

CRUISE DATE 065 4 1965 STA. 0 M N 4 IS 12		***** LARVAE *****					***** LARVAE *****					2	
SPECIES ANALYZED		NUMBER	LENGTHS (MM)		NO.	NUMBER	LENGTHS (MM)		NO.	NO. PER 10M			
		TOTAL MEAS.	MEAN	RANGE	EGGS	TOTAL MEAS.	MEAN	RANGE	EGGS	LARVAE	EGGS		
		SAMPLING DEPTH	0-15M			SAMPLING DEPTH	18-33M						
AHLIA EMENTIS		1	1	71.0	TL						0.3		
OPHICHTHUS MELANOPHORUS		1	1	31.5	NL						0.3		
OPHICHTHUS OCELLATUS		4	4	33.7	27.0-43.0	TL	1	1	33.5	TL	1.5		
BREVIORITIA TYRANNUS		36	32	7.5	4.1-12.7	TL	21	21	9.1	5.0-11.7	TL	17.8	
ETRUMEUS SADINA		5	5	7.3	6.0-10.0	TL	2	2	10.2	9.5-10.9	TL	2.2	
ENGRAULIS EURYSTOMAE		1	1	4.6		TL	4	4	20.4	18.6-22.1	TL	1.6	
CERATOSCOPELIUS HAMMINGI		2	2	5.6	5.2-6.0	SL	1	1	5.0		SL	0.9	
LAMFANYCTUS ALATUS OR PHOTONOTUS							1	1	6.3		SL	0.3	
URUPHYCIS SP.		7	3	3.3	2.6-3.7	NL	69	18	4.1	3.1-5.3	NL	25.1	
SERRANIDAE												0.0	
HEMANTHIAS VIVANUS		2	2	3.0	2.8-3.2	SL	3	3	3.1	2.4-3.7	SL	1.6	
LEICSTOMUS XANTHURUS		39	39	3.6	2.5-7.6	SL	208	201	4.5	2.7-8.0	SL	11.0	
MICROPOGON UNICULATUS		41	40	3.2	2.5-4.4	SL	133	132	3.8	2.5-8.6	SL	56.6	
PEPRILUS TRIACANTHUS							3	3	3.6	3.2-4.1	SL	1.0	
PERCNOTUS CARLINIUS							24	24	5.5	3.7-8.0	SL	8.0	
BOETHUS OCELLATUS		1	1	11.4		SL	6	6	6.5	3.3-8.9	SL	2.3	
ETREPEUS MICROSTOMUS		12	12	6.0	4.7-7.6	SL	158	25	4.9	2.9-9.4	SL	56.3	
PARALICHTHYS TENTATUS		5	5	4.3	3.8-4.8	SL	4	4	4.8	3.2-7.3	SL	2.8	
SCOPHTHALMUS AQUOSUS							2	1	4.2		SL	0.7	
SYACIUM PAPILLOSUM		1	1	10.0		SL						0.3	
SYMPHYRUS SP.		2	2	4.2	4.2-4.2	SL						0.7	
ADDITIONAL LARVAE CAUGHT		SYNOdontidae PARALEPTIDAE LOPHIichthidae BREGMACEROTIDAE OPHIIDIIDAE SYNGNATHIDAE SERRANIDAE CARANGIDAE SPARIDAE LABRIDAE OR SCARIDAE GOBIIDAE SCORPAENIDAE TRIGLIDAE UNIDENTIFIED					SYNOdontidae BREGMACEROTIDAE OPHIIDIIDAE SPARIDAE MUGILIDAE CALLIONYMIDAE GOBIIDAE STROMATEIDAE UNIDENTIFIED						
.....													
N 5 IS 12		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
BREVIORITIA TYRANNUS		172	49	8.2	3.9-11.2	TL	49	45	5.6	5.3-12.7	TL	17.9	
ETRUMEUS SADINA		1	1	12.0		TL	2	2	13.1	13.0-13.3	TL	1.0	
ENGRAULIS EURYSTOMAE		1	1	18.2		TL	7	6	13.7	9.3-22.6	TL	2.6	
LAMFANYCTUS ALATUS OR PHOTONOTUS		2	2	4.9	4.7-5.1	SL						0.7	
URUPHYCIS SP.		231	36	3.7	1.9-6.9	NL	58	7	4.4	1.9-6.3	NL	88.6	
SERRANIDAE												0.0	
LEICSTOMUS XANTHURUS		206	105	4.7	2.8-9.5	SL	109	106	4.3	2.7-7.6	SL	58.1	
MICROPOGON UNICULATUS		14	12	3.9	2.5-5.4	SL	50	48	4.2	2.7-6.6	SL	20.9	
PEPRILUS TRIACANTHUS		5	5	3.9	2.9-4.5	SL	1	1	4.5		SL	1.8	
PERCNOTUS CARLINIUS		10	10	3.9	2.7-5.5	SL	1	1	5.7		SL	3.3	
BOETHUS OCELLATUS		5	5	3.5	2.5-5.1	SL	3	3	4.5	3.2-6.2	SL	2.5	
CYCLIPSETTA FIMBRIATA		1	1	6.1		SL						0.3	
ETREPEUS MICROSTOMUS		50	48	5.2	3.1-10.0	SL	117	25	4.7	3.0-9.3	SL	54.0	
PARALICHTHYS TENTATUS		12	12	3.5	2.9-5.2	SL	11	11	4.6	3.2-7.3	SL	7.3	
SCOPHTHALMUS AQUOSUS							1	1	4.5		SL	0.3	
SYACIUM PAPILLOSUM							1	1	8.2		SL	0.3	
SYMPHYRUS SP.							1	1	3.5		SL	0.3	
ADDITIONAL LARVAE CAUGHT		OPHIICHTHIDAE SYNOdontidae OPHIIDIIDAE SYNGNATHIDAE SERRANIDAE SPARIDAE LABRIDAE OR SCARIDAE MUGILIDAE CALLIONYMIDAE GOBIIDAE ACANTHURIDAE STROMATEIDAE SCORPAENIDAE UNIDENTIFIED					VINCIGUERRIA SP. STOMIATIDAE SYNOdontidae PARALEPTIDAE BREGMACEROTIDAE OPHIIDIIDAE SERRANIDAE CARANGIDAE SPARIDAE LABRIDAE OR SCARIDAE CALLIONYMIDAE GOBIIDAE TRICHIURIDAE STROMATEIDAE SCORPAENIDAE UNIDENTIFIED						
.....													
P 1 IS 12		SAMPLING DEPTH 0-3M											
MICROPOGON UNICULATUS		1	1	8.4		SL						0.1	
PARALICHTHYS TENTATUS												0.0	
SCOPHTHALMUS AQUOSUS		1	1	3.0		SL						0.1	
ADDITIONAL LARVAE CAUGHT		SPARIDAE CALLIONYMIDAE											

TABLE 3. (continued)

CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2	
065 4 1965		NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS	NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS	NO. PER 10M	
STA.	04	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	LARVAE	
P 2 15 12		SAMPLING DEPTH 0-6M											
ANCHOA MOPSETUS		1	1	47.6		TL						0.1	
LEICSTOMUS XANTHURUS		1	1	7.3		SL						0.1	
MICROPOGON UNDULATUS		4	4	9.3	8.7-10.0	SL						0.5	
BETHUS OCELLATUS		1	1	13.6		SL						0.1	
SCOPHTHALMUS AQUOSUS		2	1	2.8		SL						0.2	
ADDITIONAL LARVAE CAUGHT		ANGUILLA ROSTRATA											
		SPARIDAE											
		UNIDENTIFIED											
.....													
P 3 15 12		SAMPLING DEPTH 0-15M											
ELCS SAURUS		2	2	28.9	28.8-29.1	NL						0.6	
OPHICHTHUS MELANOPOFUS		1	1	30.2		NL						0.3	
ENGRAULIS EURYSTOLE		2	1	29.1		TL						0.6	
LAMPANCTUS ALATUS CR PHOTONCTUS		1										0.3	
MYCTOPHUM AFFINE		1	1	4.4		SL						0.3	
UROPHYCIS SP.		2	2	5.6	5.3- 5.9	NL						0.6	
HEMANTHIAE VI VANUS		2	2	3.4	3.3- 3.5	SL						0.6	
LEICSTOMUS XANTHURUS		21	21	7.2	4.2- 9.5	SL						6.4	
MICROPOGON UNDULATUS		2	2	5.3	5.1- 5.6	SL						0.6	
PRIONOTUS CARLINIUS		2	2	5.3	4.9- 5.8	SL						0.6	
BETHUS OCELLATUS		3	3	9.2	4.7-17.3	SL						0.9	
ETREPOS MICROSTOMUS		6	6	6.0	4.0- 9.0	SL						1.8	
PARALICHTHYS CENTATUS		1	1	5.6		SL	1					0.3	
SCOPHTHALMUS AQUOSUS		39	36	3.2	2.5- 4.8	SL						11.8	
SYMPHURUS SP.		2	2	8.9	5.7-12.1	SL						0.6	
ADDITIONAL LARVAE CAUGHT		VINCIGUERRIA SP.											
		SYNGNATHICAE											
		SERRANICAE											
		SPARIOAE											
		LABRIDAE CR SCARIDAE											
		MUGILICAE											
		CALLIONYMICAE											
		GOBIIDAE											
		ACANTHURIDAE											
		SCORPAENICAE											
		TRIGLIOAE											
		TETRAODONTIDAE											
		UNIDENTIFIED											
.....													
P 4 15 12		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
OPHICHTHUS OCELLATUS		1	1	20.3		TL						0.3	
BREVOORTIA TYRANNIUS		8	8	9.2	7.7-12.0	TL	2	2	5.2	0.3-10.1	TL	3.1	
ETREPOS SADINA		1	1	13.1		TL						0.3	
CERATOSCOPELUS WAKMINGI		2	2	5.7	5.3- 6.1	SL						0.7	
LAMPANCTUS ALATUS CR PHOTONCTUS		2	2	4.2	4.1- 4.3	SL						0.7	
UROPHYCIS SP.		34	11	3.5	2.5- 5.6	NL	5	4	3.0	2.4- 3.8	NL	11.9	
LEICSTOMUS XANTHURUS		322	102	4.2	3.0- 7.5	SL	84	82	4.0	2.8- 7.1	SL	124.6	
MICROPOGON UNDULATUS		76	75	3.8	3.0- 7.0	SL	25	24	3.9	3.0- 7.7	SL	31.1	
PEPILUS TRIACANTHUS		1	1	3.4		SL						0.3	
PRIONOTUS CARLINIUS		15	15	6.0	4.8- 7.0	SL	15	15	3.5	2.7- 6.7	SL	9.5	
BETHUS OCELLATUS		15	15	4.6	3.0- 7.5	SL						5.0	
ETREPOS MICROSTOMUS							19	19	3.7	2.6-10.0	SL	6.3	
PARALICHTHYS CENTATUS		2	2	3.5	3.2- 3.8	SL	4	1	3.2		SL	0.9	
SYMPHURUS SP.		2	2	6.0	4.1- 7.8	SL						0.7	
ADDITIONAL LARVAE CAUGHT		SYNOBONTICAE					SYNOBONTICAE						
		PARALEPIDIDAE					PARALEPIDIDAE						
		OPHIDIIDAE					OPHIDIIDAE						
		SERRANICAE					SYNGNATHICAE						
		SPARIOAE					SERRANIDAE						
		LABRIDAE CR SCARIDAE					SPARIOAE						
		MUGILICAE					CHAETODONTICAE						
		CALLIONYMICAE					MUGILICAE						
		GOBIIDAE					GOBIICAE						
		ACANTHURIDAE					TRIGLIOAE						
		GEMPYLICAE					UNIDENTIFIED						
		STROMATEIDAE											
		SCORPAENICAE											
		TRIGLIOAE											
		UNIDENTIFIED											

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CRUISE DATE			***** LARVAE *****					***** LARVAE *****					2	
STA.	DM	SPECIES ANALYZED	NUMBER		LENGTHS (MM)		NO.	NUMBER		LENGTHS (MM)		NO.	NO. PER 1CM	
P 5	15 12		TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	EGGS	
			SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-23M					
		PREVOORTIA TYRANNUS	3	3	9.5	8.7-10.7 TL							1.0	
		MYCTOPHIDAE											0.7	
		CERATOSCOPELUS MADERENSIS	2	2	10.2	9.8-10.6 NL		2	2	4.6	4.2- 5.0 SL		0.7	
		CERATOSCOPELUS HAMMINGI	50	20	4.0	2.9- 6.1 SL		2	2	3.8	3.2- 4.5 SL		16.7	
		DIAPHUS SP.	6	6	4.8	3.7- 7.1 SL		2	2	6.5	6.2- 6.8 SL		2.5	
		HYGROPHUM TANNINGI						1	1	5.0		SL	0.3	
		LAMPANYCTUS AIAIUS ER PHOTONCTUS	8	8	3.8	3.4- 4.3 SL		12	12	2.7	2.9- 4.5 SL		6.4	
		LAMPANYCTUS ATER						1	1	5.7		SL	0.3	
		MYCTOPHUM SP.						1	1	5.2		SL	0.3	
		NOTOSCOPELUS SP.						6	6	4.7	4.4- 5.5 SL		2.0	
		HEMANTHIAS VIVANUS						1	1	3.6		SL	0.3	
		PLECTRANTHIAS GARMUPELLUS	1	1	3.6		SL						0.3	
		LEICISTOMUS XANTHOKUS	8	8	3.4	2.5- 4.1 SL							2.7	
		MICROPOGON UNICULATUS	1	1	3.4		SL						0.3	
		PEPRILUS TRACANTHUS						3	3	2.5	2.7- 3.3 SL		1.0	
		PELENOTUS CARLINUS						1	1	5.2		SL	0.3	
		ROTHUS OCELLATUS	5	5	4.5	3.7- 5.7 SL		1	1	4.0		SL	1.8	
		SYACIUM PAPILLIDSUM	1	1	10.7		SL	1	1	3.7		SL	0.6	
		SYMPHURUS SP.	1	1	3.8		SL						0.3	
		ADDIT IDN41 LARVAE CAUGHT												
		MURAENIDAE												
		CYCLOTHONE SP.												
		STEMIATIIDAE												
		SYNOdontIDAE												
		MYCTOPHIDAE												
		SERPANIDAE												
		CARANGIIDAE												
		SPARIDAE												
		LABRIDAE OR SCARIDAE												
		MUGILICAE												
		CALLIONYMIDAE												
		GobiIDAE												
		ACANTHURIDAE												
		GEMPYLIDAE												
		SCORPAENIDAE												
		BALISTIDAE												
		TETRAodontIDAE												
		UNIDENTIFIED												
		MURAENIDAE												
		OPHIOTHIDAE												
		SYNOdontIDAE												
		PARALEPTOICAE												
		LOPHIIFORMES												
		SERRANIDAE												
		GRAMMISTIDAE												
		CORYPHAENIDAE												
		CHAETODONTIDAE												
		LABRIDAE OR SCARIDAE												
		MUGILIDAE												
		GobiIDAE												
		STROMATEIDAE												
		UNIDENTIFIED												

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[illegible]

TABLE 3. (continued)

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CRUISE DATE	STATION	SPECIES ANALYZED	***** LARVAE *****					***** LARVAE *****					2	
			NUMBER	LENGTHS (MM)	NO.	NO. EGGS	NUMBER	LENGTHS (MM)	NO.	NO. EGGS	NO. LARVAE	PEP LON EGGS		
			TOTAL MEAS.	MEAN RANGE	MEAS.		TOTAL MEAS.	MEAN RANGE	MEAS.					
			SAMPLING DEPTH	0-15M			SAMPLING DEPTH	1E-24M						
C 3	C 02	ADDITIONAL LARVAE CAUGHT					OPHIOTIDAE PHOLIDAE							
.....														
C 4	C 02		SAMPLING DEPTH	0-15M			SAMPLING DEPTH	1E-24M						
	GADUS MORHUA		2	2 5.2 3.8- 6.5 SL	0				3	0.6	0.5			
	MELANOGRAMMUS AEGLEFINUS		1	1 5.7 SL	0				0	0.3	C.C			
	POLLACHIUS VIRENS				0		1	1 7.0 SL	0	0.2	0.0			
ADDITIONAL LARVAE CAUGHT PHOLIDAE UNIDENTIFIED														
.....														
C 5	C 02		SAMPLING DEPTH	0-15M			SAMPLING DEPTH	1E-24M						
	CLUPEA HARENGUS		1	1 27.3 TL						0.3				
	PACHYDIPLOS CIMBRIUS		1	1 6.8 SL	0		1	1 8.7 SL	0	0.6	0.0			
	GADUS MORHUA		5	4 5.5 4.6- 6.2 SL	1		5	5 5.5 4.1- 6.5 SL	0	3.2	C.3			
	POLLACHIUS VIRENS				0		9	8 8.2 4.9-11.0 SL	0	3.0	0.0			
	AMMODYTES SP.		2	2 13.5 13.0-14.0 TL						0.7				
ADDITIONAL LARVAE CAUGHT PHOLIDAE UNIDENTIFIED														
.....														
C 6	C 02		SAMPLING DEPTH	0-15M			SAMPLING DEPTH	1E-24M						
	GADUS MORHUA		6	6 5.6 4.6- 7.7 SL	0		4	4 8.2 4.9- 8.4 SL	0	3.1	C.C			
	POLLACHIUS VIRENS		3	3 7.2 4.4- 8.5 SL	0				0	1.0	C.C			
ADDITIONAL LARVAE CAUGHT ANGUILLA ROSTRATA PHOLIDAE														
.....														
C 7	C 02		SAMPLING DEPTH	0-15M			SAMPLING DEPTH	1E-24M						
	GADUS MORHUA		3	3 6.1 4.2- 7.2 SL	0		3	3 7.7 7.0- 9.0 SL	0	1.9	0.0			
	POLLACHIUS VIRENS				0		13	13 7.5 4.6-13.7 SL	0	4.3	0.0			
	AMMODYTES SP.		4	4 14.4 12.3-17.4 TL			6	6 12.9 10.0-17.0 TL		3.2				
ADDITIONAL LARVAE CAUGHT ANGUILLA ROSTRATA														
.....														
C 8	C 02		SAMPLING DEPTH	0-15M			SAMPLING DEPTH	1E-24M						
	AMMODYTES SP.		4	4 13.8 12.9-15.3 TL						1.3				
ADDITIONAL LARVAE CAUGHT PARALEPOTIDAE														
.....														
C 1	C 02		SAMPLING DEPTH	0-6M										
	POLLACHIUS VIRENS		3	3 5.0 3.3- 5.9 SL	0					0.4	0.0			
	AMMODYTES SP.		4	3 13.2 11.0-15.6 TL						0.5				
ADDITIONAL LARVAE CAUGHT COTTIDAE														
.....														
C 2	C 02		SAMPLING DEPTH	0-6M										
	GADUS MORHUA		1	1 6.2 SL	0					0.1	0.0			
	POLLACHIUS VIRENS		1	1 9.6 SL	0					0.1	C.C			
ADDITIONAL LARVAE CAUGHT COTTIDAE														
.....														
C 3	C 02		SAMPLING DEPTH	0-15M										
	GADUS MORHUA		2	2 5.2 5.1- 5.2 SL	5					0.6	1.5			
	POLLACHIUS VIRENS		1	1 10.5 SL	0					0.3	C.C			
	AMMODYTES SP.		1	1 13.0 TL						0.3				
ADDITIONAL LARVAE CAUGHT PHOLIDAE														
.....														
C 4	C 02		SAMPLING DEPTH	0-15M										
	GADUS MORHUA		3	3 5.2 4.3- 5.8 SL	0					0.9	0.0			
	POLLACHIUS VIRENS		1	1 10.0 SL	0					0.3	C.C			
	AMMODYTES SP.		1	1 12.2 TL						0.3				
.....														
C 5	C 02		SAMPLING DEPTH	0-15M			SAMPLING DEPTH	1E-24M						
	GADUS MORHUA		2	1 7.8 SL	0		3	3 8.8 7.5- 9.7 SL	2	1.1	C.3			
	POLLACHIUS VIRENS				0		1	1 12.8 SL	0	0.2	C.C			
	AMMODYTES SP.		1	1 21.2 TL			1	1 20.0 TL		0.5				
ADDITIONAL LARVAE CAUGHT ANGUILLA ROSTRATA PHOLIDAE														
.....														
C 6	C 02		SAMPLING DEPTH	0-15M			SAMPLING DEPTH	1E-24M						
	GADUS MORHUA		1	1 4.7 SL	0					0.3	0.0			
	AMMODYTES SP.		19	19 14.4 12.0-17.8 TL			2	2 14.6 13.0-16.3 TL		6.4				
ADDITIONAL LARVAE CAUGHT PHOLIDAE														
.....														
C 7	C 02		SAMPLING DEPTH	0-15M			SAMPLING DEPTH	1E-24M						
	POLLACHIUS VIRENS		3	3 8.0 6.6- 9.0 SL	0		2	2 8.3 8.0- 8.5 SL	0	1.6	0.0			
	AMMODYTES SP.		2	2 13.1 12.2-14.0 TL			5	5 14.5 13.4-17.4 TL		2.3				
	PARALICHTHYS CENTATUS				0		1	1 5.5 SL	0	0.3	0.0			

TABLE 3. (continued)

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CRUISE DATE		***** LARVAE *****				***** LARVAE *****				2	
066 1 1966		NUMBER		LENGTHS (MM)		NUMBER		LENGTHS (MM)		NO. PER 10M	
STA. 0 M SPECIES ANALYZED		TOTAL MEAS.		MEAN RANGE MEAS.		TOTAL MEAS.		MEAN RANGE MEAS.		LARVAE	
0 9 C4 02		SAMPLING DEPTH 0-15M		0-15M		SAMPLING DEPTH 1E-33M		1E-33M		EGGS	
AMMOCYTES SP.		2	2	16.6	15.5-17.8 TL	1		1	9.1	0	0.7
PARALICHTHYS DENTATUS						1		1	9.1	0	0.3
ADDITIONAL LARVAE CAUGHT						UNIDENTIFIED				0.0	
.....											
E 1 C5 02		SAMPLING DEPTH 0-6M									
ADDITIONAL LARVAE CAUGHT		ANGUILLA ROSTRATA									
		COTTIDAE									
.....											
F 2 C5 02		SAMPLING DEPTH 0-6M									
AMMOCYTES SP.		3	3	14.1	11.6-17.2 TL					0.4	
.....											
E 3 C5 02		SAMPLING DEPTH 0-6M									
GADUS MORHUA		2	2	9.1	7.2-10.9 SL	0				0.2	
AMMOCYTES SP.		9	9	14.5	7.3-17.5 TL					1.1	
.....											
F 4 C5 02		SAMPLING DEPTH 0-15M									
CLUPPEA HARENGUS HARENGUS		1	1	32.0	TL					0.3	
GADUS MORHUA		7	7	9.2	5.7-14.0 SL	0				2.1	
AMMOCYTES SP.		1	1	18.0	TL					0.3	
ADDITIONAL LARVAE CAUGHT		PHOLIDAE									
.....											
E 5 C5 02		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 1E-24M		1E-24M			
CLUPPEA HARENGUS HARENGUS		1	1	33.2	TL					0.3	
GADUS MORHUA		3	3	8.8	7.7-10.6 SL	1				1.0	
POLLACHIUS VIRENS						0				0.2	
AMMOCYTES SP.		1	1	24.0	TL	1		1	4.1	0	0.3
ADDITIONAL LARVAE CAUGHT		PHOLIDAE				PHOLIDAE					
		COTTIDAE									
		UNIDENTIFIED									
.....											
E 6 C5 02		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 1E-24M		1E-24M			
CLUPPEA HARENGUS HARENGUS		1	1	26.9	TL					0.3	
GADUS MORHUA		2	2	7.7	6.5-8.9 SL	0				0.6	
SCOPHTHALMUS AQUOSUS		1	1	9.2	SL					0.3	
ADDITIONAL LARVAE CAUGHT		PHOLIDAE									
.....											
E 7 C5 02		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 1E-33M		1E-33M			
POLLACHIUS VIRENS		1	1	10.6	SL	0				0.3	
AMMOCYTES SP.		22	22	13.5	5.9-22.0 TL					7.3	
.....											
F 8 C5 02		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 1E-33M		1E-33M			
AMMOCYTES SP.		1	1	17.1	TL					0.3	
.....											
F 2 C6 02		SAMPLING DEPTH 0-6M									
AMMOCYTES SP.		7	7	13.7	10.8-16.4 TL					0.8	
ADDITIONAL LARVAE CAUGHT		COTTIDAE									
.....											
F 3 C6 02		SAMPLING DEPTH 0-15M									
GADUS MORHUA		4	2	8.5	7.7-9.2 SL	0				1.2	
AMMOCYTES SP.		90	55	13.5	10.3-20.5 TL					27.3	
PARALICHTHYS DENTATUS		1	1	7.2	SL	0				0.3	
ADDITIONAL LARVAE CAUGHT		COTTIDAE									
.....											
F 4 C6 02		SAMPLING DEPTH 0-15M									
GADUS MORHUA		1	1	9.7	SL	0				0.3	
AMMOCYTES SP.		25	24	14.9	10.3-20.4 TL					7.6	
.....											
F 5 C6 02		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 1E-24M		1E-24M			
GADUS MORHUA		2	2	9.2	7.7-10.7 SL	0				1.7	
AMMOCYTES SP.		32	30	16.4	12.5-19.6 TL					23.4	
ADDITIONAL LARVAE CAUGHT		ANGUILLA ROSTRATA				ANGUILLA ROSTRATA					
		PHOLIDAE				BREGMACEROTIDAE					
						PHOLIDAE					
						UNIDENTIFIED					
.....											
F 6 C5 02		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 1E-33M		1E-33M			
POLLACHIUS VIRENS		2	2	8.3	8.1-8.4 SL	0				0.7	
AMMOCYTES SP.		3	3	14.9	12.5-16.4 TL					1.2	
ADDITIONAL LARVAE CAUGHT						1		1	17.2	0	0.0
						ANGUILLA ROSTRATA					
						GOBIIDAE					
.....											
F 7 C5 02		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 1E-33M		1E-33M			

TABLE 3. (continued)

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CRUISE DATE STA. NO. SPECIES ANALYZED	***** LARVAE *****				***** LARVAE *****				2	
	NUMBER	LENGTHS (MM)	NO.		NUMBER	LENGTHS (MM)	NO.		NO. PER 10M ²	EGGS
J 3 C7 02 AMMOCOYTES SP.	3	3 11.1 7.8-13.6 TL							0.4	
J 4 C7 02 AMMOCOYTES SP.	1	1 19.0 TL							0.3	
J 5 C7 02 BREVOORTIA TYRANNUS AMMOCOYTES SP.	1 2	1 23.5 TL 2 21.9 20.8-23.1 TL							0.3 0.6	
J 6 C7 02 AMMOCOYTES SP.	3	3 17.2 14.1-19.0 TL			2	2 12.1 5.8-18.4 TL			1.3	
J 7 C7 02 ADDITIONAL LARVAE CAUGHT		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-23M				
K 1 C9 02 BREVOORTIA TYRANNUS AMMOCOYTES SP.	3 1	3 16.8 9.5-25.4 TL 1 6.6 TL							0.4 0.1	
K 2 C9 02 BREVOORTIA TYRANNUS ANCHCA MITCHELLI AMMOCOYTES SP. SCOPHTHALMUS ADUSUS ADDITIONAL LARVAE CAUGHT	4 17 4 2	4 17.3 13.8-24.3 TL 17 39.0 30.1-46.6 TL 4 15.0 11.6-17.8 TL 2 7.2 5.6-8.7 SL							1.2 5.2 1.2 0.6	
		GOBIIDAE COTTIDAE								
K 3 C7 02 BREVOORTIA TYRANNUS MICROPYGON UNOLATILIS AMMOCOYTES SP.	1 1 3	1 17.0 TL 1 48.0 SL 3 15.7 16.7-24.0 TL							0.3 0.3 0.9	
		ADDITIONAL LARVAE CAUGHT GOBIIDAE								
K 4 C7 02 AMMOCOYTES SP.	4	4 22.0 14.0-27.8 TL							1.2	
K 5 C7 02 EUCHELYDOPUS CIMBRIUS AMMOCOYTES SP. PPIODICTUS CAROLINUS ADDITIONAL LARVAE CAUGHT	6	6 19.7 16.8-21.5 TL			0	1 3.4 SL 8 18.8 13.5-29.5 TL 1 30.4 SL	0		0.2 3.1 0.2	C.C
						GOBIIDAE				
K 6 C7 02 OPHCETHUS OCELLATUS BREVOORTIA TYRANNUS ENGRAULIS EURYSTOLE URCAPHYCIS SP. URCAPHYCIS REGIUS RICHTHYS OCELLATUS ETROPUS MICROSTOMUS PARALICHTHYS CENTATUS ADDITIONAL LARVAE CAUGHT	1 1 1 4 3 1 1	1 33.5 TL 1 17.9 TL 1 17.9 TL 3 2.7 2.5-2.8 NL 3 9.7 7.8-13.1 NL 1 1 7.6 SL				2 18.4 17.9-19.0 TL 1 2.3 NL			0.3 0.3 0.7 1.5 1.0 0.3 0.3 0.3	
		VINCIGUEFRIA SP. SEPRANICAE GOBIIDAE			0	1 8.9 SL	0		0.3	C.C
K 7 C7 02 MYRICHTHYS OCELLATUS OPHCETHUS OCELLATUS ENGRAULIS EURYSTOLE NOTOSCOPULUS SP. URCAPHYCIS REGIUS SCOMBER JAPONICUS	1 1 1 1	1 99.9 TL 1 68.5 TL 1 12.5 TL 1 6.1 NL				1 10.4 SL			0.3 0.3 0.3 C.C 0.3	
					0	1 11.9 SL	0		0.3	0.0
I 1 C9 02 BREVOORTIA TYRANNUS ANCHCA MITCHELLI ADDITIONAL LARVAE CAUGHT	6 9	6 22.3 17.0-29.1 TL 9 37.8 34.6-41.0 TL							0.7 1.1	
		ANGUILLIA FUSCIRATA								

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[illegible]

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[illegible]

TABLE 3. (continued)

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CRUISE DATE STA. NO. M SPECIES ANALYZED	***** LARVAE *****					NO. EGGS	***** LARVAE *****					NO. EGGS	NO. PER 100 LARVAE	2 EGGS
	NUMBER	LENGTHS (MM)	TOTAL MEAS.	MEAN	RANGE		NUMBER	LENGTHS (MM)	TOTAL MEAS.	MEAN	RANGE			
NO. (9 02)	SAMPLING DEPTH	0-15M					SAMPLING DEPTH	18-23M						
PREVOORTIA TYRANNUS	15	15	11.9	5.7-17.5	TL		6	6	11.5	8.6-13.4	TL	6.5		
ETREMEUS SADINA	11	11	9.9	5.8-14.5	TL							3.7		
CERATOSCOPELUS WAMMINGI							1	1	8.9		SL	0.3		
DIARHUS SP.							1	1	6.9		SL	0.3		
HYGEPHUM HYGOMI							1	1	5.6		SL	0.3		
MYCTOPHUM AFFINE							1	1	5.5		SL	0.3		
NOTOLYCHNUS VALDIVIAE							1	1	5.8		SL	0.3		
NOTOSCOPELUS SP.	1	1	7.9		SL							0.3		
ECHOPHYDUS CIMBRIUS	1	1	2.4		SL	0						0.3		0.0
HYPOPHYCIS SP.	19	15	2.7	1.5-4.0	NL		9	9	2.7	2.0-3.2	NL	8.7		
HEMANTHUS VIVANUS							1	1	5.1		SL	0.3		
PICTOANTHUS GARKUPELLUS	1	1	4.5		SL							0.3		
LEICSTOMUS XANTHURUS	3	3	4.9	4.6-5.1	SL		3	3	5.6	4.7-7.3	SL	1.9		
MICROPYGON UNICULATUS	2	2	4.8	4.5-5.1	SL		1	1	5.3		SL	0.9		
PEPIONOTUS CAROLINUS	3	3	6.3	5.5-7.8	SL		2	2	5.6	5.3-5.9	SL	1.6		
PECHUS OCELLATUS	2	2	7.7	7.5-7.9	SL		2	2	7.3	5.7-8.8	SL	1.3		
ETREPEUS MICROSTOMUS	6	6	4.3	3.5-5.3	SL		9	5	4.3	3.3-5.7	SL	4.8		
PARALICHTHUS DENTATUS	6	6	5.1	3.7-6.9	SL	0	3	3	4.7	3.8-6.4	SL	2.8		C.C
SYMPHYRUS SP.	2	2	7.2	6.7-7.6	SL		1	1	6.4		SL	0.9		
ADDITIONAL LARVAE CAUGHT	MURAENICAE						MORINGUICAE							
	OPHICHTHICAE						CONGRICAE							
	SYNOCEPTICAE						STOMIATIDAE							
	PARALEPIDICAE						SYNOCEPTICAE							
	BREGMACETIDAE						PARALEPIDICAE							
	EPHIIDICAE						LOPHIIFORMES							
	SPARIDAE						BREGMACETIDAE							
	LABRIDAE OR SCARICAE						CARAPIDAE							
	MUGILIDAE						SERRANIDAE							
	CALLIONYMIDAE						GRAMMISTIDAE							
	GOBIIDAE						AFOGONIDAE							
	SCORPAENICAE						CARANGIDAE							
	TRIGLICAE						SPARIDAE							
	BALISTICAE						LABRIDAE OR SCARICAE							
	UNIDENTIFIED						GOBIIDAE							
							SCORPAENICAE							
							UNIDENTIFIED							
P 1 (9 02)	SAMPLING DEPTH 0-6M													
CALLECHELYS PERRYAE	1	1	67.0		NL							0.1		
MYROPHIS PUNCTATUS	1	1	67.0		TL							0.1		
PREVOORTIA TYRANNUS	3	3	14.9	13.6-17.3	TL							0.4		
LEICSTOMUS XANTHURUS	8	8	13.2	12.0-14.7	SL							1.0		
MICROPYGON UNICULATUS	3	3	10.1	9.6-10.9	SL							0.4		
SCOPHTHALMUS AQUINUS	2	2	5.5	3.2-7.7	SL							0.2		
ADDITIONAL LARVAE CAUGHT	SPARIDAE													
	UNIDENTIFIED													
P 2 (9 02)	SAMPLING DEPTH 0-6M													
PREVOORTIA TYRANNUS	9	9	21.1	14.6-26.6	TL							1.1		
LEICSTOMUS XANTHURUS	12	12	12.4	10.1-14.2	SL							1.5		
PARALICHTHUS DENTATUS	1	1	3.8		SL	0						0.1		C.C
ADDITIONAL LARVAE CAUGHT	SPARIDAE													
	UNIDENTIFIED													
P 3 (9 02)	SAMPLING DEPTH 0-6M													
PREVOORTIA TYRANNUS	108	108	14.8	6.5-23.9	TL							13.1		
ENGRAJILIS EURYSTOIE	1	1	30.8		TL							0.1		
LEICSTOMUS XANTHURUS	17	17	10.5	7.0-13.8	SL							2.1		
ADDITIONAL LARVAE CAUGHT	SYNGNATHICAE													
	SPARIDAE													
	UNIDENTIFIED													
P 4 (9 02)	SAMPLING DEPTH 0-15M													
PREVOORTIA TYRANNUS	45	44	12.6	7.1-17.9	TL							13.6		
CERATOSCOPELUS MARFENSIS	1	1	5.9		SL							0.3		
HYPOPHYCIS SP.	20	17	5.0	3.2-9.0	NL							6.1		
LEICSTOMUS XANTHURUS	18	18	6.0	4.3-10.3	SL							5.5		
MICROPYGON UNICULATUS	4	4	5.5	3.9-6.6	SL							1.2		
PEPILUS TRIACANTHUS	2	2	4.3	3.0-5.6	SL							0.6		
ETREPEUS MICROSTOMUS	6	6	6.4	5.3-7.7	SL							1.8		
PARALICHTHUS DENTATUS	6	6	4.4	3.8-5.0	SL	0						1.8		0.0
ADDITIONAL LARVAE CAUGHT	BREGMACETIDAE													
	SERRANIDAE													
	CARANGIDAE													
	SPARIDAE													
	UNIDENTIFIED													

TABLE 3. (continued)

CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2		
P66 1 1966		NUMBER	LENGTHS (MM)		NO.		NUMBER	LENGTHS (MM)		NO.				
STA.	04	TOTAL MEAS.	MEAN	RANGE	EGGS		TOTAL MEAS.	MEAN	RANGE	EGGS				
P 5	09 02	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M						
OPHICHTHUS OCELLATUS							1	1	38.0	TL	0.3			
ARREVOZOTIA TYRANNUS		21	21	10.1	7.0-16.0	TL	5	5	10.5	6.5-15.4	TL	8.0		
RENTHOSEMA SUEDEBATILE							1	1	6.3	SL	0.3			
CERATOSCOPELUS MAHEFENSIS		1	1	6.1		SL					0.3			
CERATOSCOPELUS WAMMINGI		1	1	5.0		SL					0.3			
DIAPHUS SP.		1	1	7.1		SL					1.0			
HYGOPHUM RENOVITI OR HYGOMI							2	2	6.7	6.3- 7.1	SL	0.3		
ACTELYCHNUS VALDIVAE							1	1	5.5		SL	0.7		
NETESCOPULUS SP.							2	2	5.7	5.2- 6.3	SL	1.6		
NETESCOPULUS RESPLENDENS		1	1	6.5		SL	4	4	6.3	5.8- 7.1	SL	0.7		
UPOPHYCIS SP.		8	6	2.0	1.7- 2.5	NL	2	2	5.7	5.2- 6.2	SL	3.1		
HEMANTHUS VIVANUS		5	4	3.3	2.8- 3.8	SL	1	1	2.7	2.5- 2.9	NL	1.8		
PICTURANTHUS GARNOPPELLUS							1	1	3.5		SL	0.7		
LEICISTOMUS XANTHULUS		10	10	4.2	3.4- 5.4	SL	2	2	4.7	4.5- 4.9	SL	3.7		
MICROPOGON UNDULATUS		3	3	3.7	3.4- 4.2	SL	2	2	5.2	5.2- 5.4	SL	1.2		
ALXIS SP.							1	1	6.5		SL	0.3		
RETHUS OCELLATUS		3	3	4.1	3.8- 4.4	SL	1	1	5.5		SL	1.2		
ETREPIUS MICROSTOMUS		3	3	4.2	4.1- 4.3	SL	1	1	7.4		SL	2.9		
PARALICHTHUS DENTATUS		3	3	4.5	4.1- 4.9	SL	6	6	4.5	3.9- 5.5	SL	1.0		
ADDITIONAL LARVAE CAUGHT							4						0	1.3
		OPHICHTHIDAE					MURAENIDAE							
		MYCTOPHIIDAE					OPHICHTHIDAE							
		CPHIDIIDAE					NETTASTOMATIDAE							
		SERRANIIDAE					SYNOODONTIDAE							
		SPARIDAE					BREGMACEROTIDAE							
		MUGILIDAE					OPHIDIIDAE							
		CALLIONYMIDAE					SERRANIDAE							
		GOBIIDAE					SPARIDAE							
		SCORPAENIDAE					LABRIDAE OR SCARIDAE							
		UNIDENTIFIED					CALLIONYMIDAE							
							GOSIIDAE							
							GEMPYLIDAE							
							SCORPAENIIDAE							
							TRIGLIDAE							
							UNIDENTIFIED							

TABLE 3. (continued)

CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2	
STA.	DATE	SPECIES ANALYZED	NUMBER	LENGTHS (MM)	NC.	NUMBER	LENGTHS (MM)	NO.	NO. PER 10M				
			TOTAL MEAS.	MEAN RANGE MEAS.	EGGS	TOTAL MEAS.	MEAN RANGE MEAS.	EGGS	LAPVFE		EGGS		
A 1	66 04		SAMPLING DEPTH 0-6M										
		CLUPEA HARENGUS HARENGUS	6	34.7 21.1-39.9 TL						0.7			
		GADUS MORHUA	1	6.2 NL	0					0.1	0.0		
		AMMODYTES SP.	13	15.3 8.2-28.7 TL						1.6			
		ADDITIONAL LARVAE CAUGHT	BLENNIICAE										
			COTTIDAE										
A 2	66 04		SAMPLING DEPTH 0-15M										
		CLUPEA HARENGUS HARENGUS	7	35.0 30.0-38.4 TL						2.1			
		GADUS MORHUA	6	5.9 4.3- 7.4 NL	1					1.8	0.3		
		AMMODYTES SP.	18	23.8 8.9-47.4 TL						5.5			
		ADDITIONAL LARVAE CAUGHT	SYNGNATHICAE										
			BLENNIICAE										
			COTTIDAE										
A 3	66 04		SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-33M							
		CLUPEA HARENGUS HARENGUS	22	35.0 21.9-41.5 TL		2	31.5 31.1-31.9 TL			7.3			
		GADUS MORHUA	1	4.6- 5.9 NL	7			0		0.3	2.3		
		AMMODYTES SP.	27	16.6 5.5-39.7 TL		20	15.0 5.6-28.7 TL			14.8			
		PSEUDOPLEURONCTES AMERICANUS	6	3.9 3.4- 4.2 SL						2.0			
		ADDITIONAL LARVAE CAUGHT	COTTIDAE			PHOLIDAE							
			COTTIDAE			COTTIDAE							
A 4	66 04		SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-33M							
		CLUPEA HARENGUS HARENGUS	5	36.3 24.9-38.5 TL		6	32.9 30.3-37.6 TL			3.5			
		GADUS MORHUA	3	5.2 4.6- 5.9 NL	8			0		1.0	2.7		
		AMMODYTES SP.	10	19.4 5.3-29.8 TL		35	21.5 10.9-34.4 TL			14.7			
		ADDITIONAL LARVAE CAUGHT	BLENNIICAE			BLENNIICAE							
			COTTIDAE			PHOLIDAE							
			COTTIDAE			COTTIDAE							
A 5	67 04		SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-33M							
		CLUPEA HARENGUS HARENGUS	1	29.5 TL		6	31.5 29.0-34.2 TL			2.3			
		AMMODYTES SP.	1	19.5 TL		2	17.5 13.5-21.6 TL			1.0			
		ADDITIONAL LARVAE CAUGHT	COTTIDAE			BLENNIICAE							
			COTTIDAE			COTTIDAE							
A 6	67 04		SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-33M							
		AMMODYTES SP.	5	22.3 15.5-35.5 TL						1.7			
A 7	67 04		SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-33M							
		CLUPEA HARENGUS HARENGUS	3	31.5 28.6-34.0 TL		4	32.8 32.1-33.9 TL			2.2			
		GADUS MORHUA	1	29.9 SL	0			0		0.3	0.0		
		AMMODYTES SP.	73	20.6 13.4-31.3 TL		23	21.6 16.9-40.1 TL			29.6			
		ADDITIONAL LARVAE CAUGHT	BLENNIICAE			BLENNIICAE							
			COTTIDAE										
			UNIDENTIFIED										
B 1	67 04		SAMPLING DEPTH 0-6M										
		AMMODYTES SP.	11	13.9 6.8-26.0 TL						1.3			
		PSEUDOPLEURONCTES AMERICANUS	6	4.1 3.5- 4.9 SL						0.7			
		ADDITIONAL LARVAE CAUGHT	BLENNIICAE										
			COTTIDAE										
B 2	67 04		SAMPLING DEPTH 0-15M										
		GADUS MORHUA	5	5.9 4.3- 7.5 NL	1					1.5	0.3		
		AMMODYTES SP.	10	13.9 7.6-22.5 TL						3.0			
		LIMANDA FERRUGINEA	7	3.7 3.5- 3.9 SL						2.1			
		PSEUDOPLEURONCTES AMERICANUS	73	3.5 3.0- 4.2 SL						22.1			
		ADDITIONAL LARVAE CAUGHT	BLENNIICAE										
			COTTIDAE										
			UNIDENTIFIED										
P 3	67 04		SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-33M							
		EUCALYPTUS CIMBRIUS			0			1		0.0	0.3		
		GADUS MORHUA	4	15.6 4.2-47.6 SL	1	3	5.4 SL	0		2.2	0.3		
		ELANOGRAMMUS AEGEFINUS			0			1		0.0	0.3		
		AMMODYTES SP.	4	14.2 12.8-15.7 TL		1	15.6 TL			1.5			
		CITHARICHTHYS ARCTIFRONS	1							0.3			
		LIMANDA FERRUGINEA	4	3.8 3.5- 4.2 SL						1.3			
		PSEUDOPLEURONCTES AMERICANUS	76	4.0 3.2- 5.4 SL						25.3			
		ADDITIONAL LARVAE CAUGHT	COTTIDAE			PHOLIDAE							
			UNIDENTIFIED			COTTIDAE							

TABLE 3. (continued)

CRUISE DATE		***** LARVAE *****			***** LARVAE *****			2	
066 ? 1966		NUMBER	LENGTHS (MM)	NO.	NUMBER	LENGTHS (MM)	NO.	NO. PER 10M	
STA. 04 SPECIES ANALYZED		TOTAL MEAS.	MEAN RANGE MEAS.	EGGS	TOTAL MEAS.	MEAN RANGE MEAS.	EGGS	LARVAE	EGGS
R 4 C7 04		SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-33M				
CLUPEA HARENGUS HARENGUS		2	2 33.7 32.3-35.2 TL					0.7	
ENCYCLYOPUS CIMBRIUS				0			3	0.0	1.0
GADUS MORHUA				11			3	0.0	4.3
MELANOGRAMMUS AEGIEFINUS				0			4	0.0	1.3
AMMOCYTES SP.		6	6 19.6 14.2-23.5 TL		3	3 21.2 18.1-25.9 TL		2.8	
ADDITIONAL LARVAE CAUGHT		COTTIDAE			COTTIDAE				
R 5 C7 04		SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-33M				
ENCYCLYOPUS CIMBRIUS				1			1	0.0	0.6
GADUS MORHUA				2			2	0.0	1.3
MELANOGRAMMUS AEGIEFINUS				1			0	0.0	0.3
POLLACHIUS VIRENS		1	1 8.7	NL			0	0.3	0.0
AMMOCYTES SP.		9	9 15.9 11.9-18.1 TL		3	3 23.6 16.9-36.5 TL		3.7	
LIMANDA FERRUGINEA		1	1 6.4	SL				0.3	
ADDITIONAL LARVAE CAUGHT		BLENNIIDAE			BLENNIIDAE				
R 6 C7 04		SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-33M				
ENCYCLYOPUS CIMBRIUS				1			0	0.0	0.3
GADUS MORHUA				1			0	0.0	0.3
MELANOGRAMMUS AEGIEFINUS				1			0	0.0	0.3
AMMOCYTES SP.		11	11 18.4 13.6-22.5 TL		12	12 15.5 10.5-20.5 TL		7.3	
ADDITIONAL LARVAE CAUGHT		BLENNIIDAE			COTTIDAE				
R 7 C7 04		SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-33M				
CERATOSCOPELUS WAKINGI					21	21 3.3 2.4-6.1 SL		7.0	
AMMOCYTES SP.		19	19 22.4 12.9-24.1 TL		4	4 16.3 14.4-19.6 TL		7.0	
LIMANDA FERRUGINEA		2						0.7	
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED			UNIDENTIFIED				
C 1 C8 04		SAMPLING DEPTH 0-15M							
GADUS MORHUA				1				0.0	0.3
AMMOCYTES SP.		3	3 16.8 4.2-39.0 TL					0.9	
LIMANDA FERRUGINEA		19	16 4.0 2.9-5.3 SL					5.8	
PSEUDOPLEURONECTES AMERICANUS		7	6 3.7 3.3-4.2 SL					2.1	
ADDITIONAL LARVAE CAUGHT		BLENNIIDAE			PHOLIDAE				
C 2 C8 04		SAMPLING DEPTH 0-15M							
POLLACHIUS VIRENS		1	1 16.1	SL				0.3	0.0
AMMOCYTES SP.		6	6 37.8 31.5-42.8 TL					1.8	
LIMANDA FERRUGINEA		6	4 3.7 3.2-4.3 SL					1.8	
PSEUDOPLEURONECTES AMERICANUS		9	9 3.9 3.3-4.6 SL					2.7	
ADDITIONAL LARVAE CAUGHT		BLENNIIDAE			PHOLIDAE				
C 3 C8 04		SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-24M				
CLUPEA HARENGUS HARENGUS		1	1 34.0	TL				0.3	
POLLACHIUS VIRENS		2	2 13.8 12.5-15.0 SL		1	1 7.9	NL	0.8	0.0
AMMOCYTES SP.		3	3 25.6 9.1-34.6 TL		5	5 27.2 9.2-34.0 TL		1.7	
LIMANDA FERRUGINEA		8	6 4.4 4.0-4.7 SL		16	15 4.1 3.7-5.2 SL		5.0	
PSEUDOPLEURONECTES AMERICANUS		1	1 5.2	SL	11	10 4.1 3.4-4.9 SL		2.1	
ADDITIONAL LARVAE CAUGHT		BLENNIIDAE			BLENNIIDAE				
C 4 C8 04		SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-33M				
ENCYCLYOPUS CIMBRIUS				0	1	1 4.9	NL	0	0.3
GADUS MORHUA				4	2	2 6.1 4.6-7.7 TL	NL	2	0.7
POLLACHIUS VIRENS		1	1 4.6	NL				0	0.3
AMMOCYTES SP.					1	1 35.0	TL		0.3
LIMANDA FERRUGINEA		84	25 4.1 3.2-5.2 SL		63	25 3.9 3.1-4.9 SL		46.2	
ADDITIONAL LARVAE CAUGHT		COTTIDAE			BLENNIIDAE				
C 5 C8 04		SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-33M				
ENCYCLYOPUS CIMBRIUS				0	1	1 2.4	SL	0	0.3
GADUS MORHUA				4	1	1 4.2	SL	2	0.3
AMMOCYTES SP.		2	2 25.5 22.5-28.6 TL		2	2 15.8 17.7-21.9 TL			1.3
GLYPTOCEPHALUS CYNAGLOSSUS		1	1 6.4	SL					0.3
LIMANDA FERRUGINEA		75	24 4.1 3.3-5.2 SL		75	25 4.4 3.5-6.2 SL		47.5	

TABLE 3. (continued)

CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2	
D66 3 1966		NUMBER		LENGTHS (MM)		NO. EGGS	NUMBER		LENGTHS (MM)		NO. EGGS	NO. PER 10 ^m LARVAE	EGGS
STA. 04 SPECIES ANALYZED		TOTAL MEAS.	MEAN	RANGE	MEAS.		TOTAL MEAS.	MEAN	RANGE	MEAS.			
C 6 CR 04		SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M					
GADUS MORHUA		2	1	4.4	SL	3	1	1	4.6	SL	0	0.9	1.0
AMMODYTES SP.		1	1	19.2	TL							0.3	
GLYPTOCEPHALLUS CYNOGLOSSUS							3	2	5.6	5.4-6.2	SL	1.0	
LIMANDA FERRUGINEA		65	25	4.8	3.3-6.2	SL	12	11	5.2	3.8-7.4	SL	23.5	
PSEUDOPLEURONECTES AMERICANUS							1	1	5.6		SL	0.3	
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED					BLENNIIDAE						
C 7 CR 04		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
GADUS MORHUA						1					0	0.0	0.3
AMMODYTES SP.		1	1	23.7	TL							0.3	
LIMANDA FERRUGINEA		2	1	5.7	SL							0.7	
C 8 CR 04		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
AMMODYTES SP.		2	2	17.9	16.3-19.6	TL	2	2	25.3	22.3-28.4	TL	1.3	
C 1 CR 04		SAMPLING DEPTH 0-6M											
AMMODYTES SP.		8	8	21.8	7.7-41.3	TL						1.0	
PSEUDOPLEURONECTES AMERICANUS		602	25	3.8	3.2-4.3	SL						73.0	
ADDITIONAL LARVAE CAUGHT		SYNGNATHICAE											
		PHOLIDAE											
		COTTIDAE											
		UNIDENTIFIED											
D 2 CR 04		SAMPLING DEPTH 0-6M											
AMMODYTES SP.		6	6	30.9	24.9-38.6	TL						0.7	
GLYPTOCEPHALLUS CYNOGLOSSUS		1	1	4.9		SL						0.1	
LIMANDA FERRUGINEA		2	2	4.2	3.4-5.0	SL						0.2	
PSEUDOPLEURONECTES AMERICANUS		210	25	3.7	3.2-4.3	SL						25.5	
ADDITIONAL LARVAE CAUGHT		BLENNIIDAE											
		PHOLIDAE											
		UNIDENTIFIED											
C 3 CR 04		SAMPLING DEPTH 0-15M											
FACELLYOPLIS CIMBRIUS						1						0.0	0.3
AMMODYTES SP.		4	4	31.3	28.6-34.1	TL						1.2	
LIMANDA FERRUGINEA		15	13	3.6	2.9-4.3	SL						4.5	
PSEUDOPLEURONECTES AMERICANUS		9	9	3.8	2.9-4.6	SL						2.7	
ADDITIONAL LARVAE CAUGHT		BLENNIIDAE											
C 4 CR 04		SAMPLING DEPTH 0-15M											
GADUS MORHUA		2	2	3.9	3.7-4.1	SL						0.6	1.8
LIMANDA FERRUGINEA		14	13	4.3	3.5-5.7	SL						4.2	
PSEUDOPLEURONECTES AMERICANUS		7	6	5.3	4.8-6.0	SL						2.1	
ADDITIONAL LARVAE CAUGHT		BLENNIIDAE											
		PHOLIDAE											
		UNIDENTIFIED											
C 5 CR 04		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
FACELLYOPLIS CIMBRIUS		1	1	4.6		SL	1				0	0.3	0.3
GADUS MORHUA		3	3	5.2	4.8-5.9	SL	12	1	1	5.6		1.2	7.6
AMMODYTES SP.		2	2	16.5	9.8-23.3	TL						0.7	
LIPARIS INQUILINUS		1	1	44.0		TL		1	1	3.8		0.6	
GLYPTOCEPHALLUS CYNOGLOSSUS								1	1	4.7		0.3	
LIMANDA FERRUGINEA		30	26	4.0	2.7-5.8	SL	17	13	3.8	3.0-4.8	SL	14.7	
PSEUDOPLEURONECTES AMERICANUS							2	2	4.6	4.3-4.9	SL	0.7	
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED					UNIDENTIFIED						
C 6 CR 04		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
CLUFFA HAPENSIS HAPENSIS		1	1	30.7		TL						0.3	
GADUS MORHUA						6	3	3	4.1	3.3-5.2	SL	1.0	2.8
POLLACHTUS VIRENS						0	1	1	4.1		SL	0.3	0.0
AMMODYTES SP.		1	1	44.1		TL						0.3	
GLYPTOCEPHALLUS CYNOGLOSSUS							2	2	5.0	4.6-5.4	SL	0.7	
LIMANDA FERRUGINEA		59	25	4.3	3.3-6.3	SL	47	25	3.6	2.7-5.6	SL	23.4	
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED					UNIDENTIFIED						
D 7 CR 04		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
D 8 CR 04		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
BENTHOSEMA GLACIALE							2	2	6.5	6.1-6.9	SL	0.7	
ADDITIONAL LARVAE CAUGHT		PARALEPITICAE					UNIDENTIFIED						

CRUISE DATE		***** LARVAE *****					***** LARVAE *****					NO. PER 10M	
STA.	DATE	SPECIES ANALYZED	NUMBER	LENGTHS (MM)	MEAS.	NO. EGGS	NUMBER	LENGTHS (MM)	MEAS.	NO. EGGS	LA FV AE	EGGS	
E 1	13 04		SAMPLING DEPTH	0-6M			TOTAL MEAS.	MEAN	RANGE				
		PSEUDOPLEURONECTES AMERICANUS	2	1	12.1	SL					0.2	0.0	
		AMMOCYTES SP.	20	20	36.7	21.3-45.5 TL					2.4		
		PSEUDOPLEURONECTES AMERICANUS	13	13	4.4	3.9-4.9 SL					1.6		
		ADDITIONAL LARVAE CAUGHT	ANGUILLAE RESTRATA BLENNIICAE PHOLIDAE COTTIDAE										
.....													
F 2	13 04		SAMPLING DEPTH	C-6M									
		AMMOCYTES SP.	26	26	37.5	22.2-48.2 TL					3.2		
		PSEUDOPLEURONECTES AMERICANUS	34	25	4.2	3.2-5.4 SL					4.1		
		ADDITIONAL LARVAE CAUGHT	BLENNIICAE PHOLIDAE UNIDENTIFIED										
.....													
E 3	22 04		SAMPLING DEPTH	0-15M									
		AMMOCYTES SP.	3	3	41.6	31.8-50.0 TL					0.9		
		ADDITIONAL LARVAE CAUGHT	ANGUILLAE RESTRATA BLENNIICAE										
.....													
F 4	22 04		SAMPLING DEPTH	C-15M			SAMPLING DEPTH	18-24M					
		ENCYCLYOPUS CIMBRIUS	1	1	2.0	SL	0				0.3	0.0	
		GADUS MORHUA	5	4	4.0	3.4-4.8 SL	6	1	1	4.0	SL	1.7	
		GLYPTOCEPHALUS CYNCELESSUS	15	8	5.1	4.2-6.0 SL	10	5	5.5	5.0-6.5 SL		6.2	
		LIMANDA FERRUGINEA	353	25	3.8	2.7-5.3 SL	334	25	3.8	2.9-5.3 SL		142.4	
		ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED GOBIIDAE UNIDENTIFIED										
.....													
E 5	22 04		SAMPLING DEPTH	0-15M			SAMPLING DEPTH	18-24M					
		GADUS MORHUA					0	1	1	4.1	SL	0.2	
		AMMOCYTES SP.					1	1	24.4	TL		0.2	
		GLYPTOCEPHALUS CYNCELESSUS	2	2	6.0	5.9-6.0 SL	3	3	5.6	5.8-5.9 SL		1.1	
		LIMANDA FERRUGINEA	255	25	4.1	3.0-5.8 SL	240	25	4.6	3.3-7.2 SL		117.1	
		ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED										
.....													
E 6	22 04		SAMPLING DEPTH	C-15M			SAMPLING DEPTH	18-33M					
		ENCYCLYOPUS CIMBRIUS					0	1	1	3.2	SL	0.3	
		GADUS MORHUA					0	1	1	3.9	SL	0.3	
		LIMANDA FERRUGINEA	59	25	3.8	3.0-5.6 SL	61	25	4.7	3.3-6.7 SL		38.0	
		ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED										
.....													
E 7	22 04		SAMPLING DEPTH	0-15M			SAMPLING DEPTH	18-33M					
		ENCYCLYOPUS CIMBRIUS					1				4	0.0	
		GLYPTOCEPHALUS CYNCELESSUS					2	2	5.7	4.7-6.7 SL		0.7	
		LIMANDA FERRUGINEA	17	17	4.8	3.3-7.7 SL	28	24	4.3	3.3-5.4 SL		14.4	
		ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED										
.....													
E 8	22 04		SAMPLING DEPTH	C-15M			SAMPLING DEPTH	18-33M					
		ENCYCLYOPUS CIMBRIUS	1				0				0.3	0.0	
		LIMANDA FERRUGINEA	1	1	6.1	SL					0.3		
		ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED										
.....													
F 1	14 04		SAMPLING DEPTH	C-6M									
		GLYPTOCEPHALUS CYNCELESSUS	1	1	5.0	SL					0.1		
		PSEUDOPLEURONECTES AMERICANUS	199	25	4.2	3.0-5.6 SL					24.1		
		ADDITIONAL LARVAE CAUGHT	PHOLIDAE COTTIDAE										
.....													
F 2	14 04		SAMPLING DEPTH	0-6M									
		ENCYCLYOPUS CIMBRIUS	1	1	3.5	SL	0				0.1	0.0	
		AMMOCYTES SP.	4	4	29.1	25.8-31.0 TL					0.5		
		LIMANDA FERRUGINEA	4	4	4.0	2.9-4.5 SL					0.5		
		PSEUDOPLEURONECTES AMERICANUS	210	25	4.2	3.3-6.3 SL					25.5		
		ADDITIONAL LARVAE CAUGHT	BLENNIICAE COTTIDAE UNIDENTIFIED										
.....													
F 3	14 04		SAMPLING DEPTH	0-15M									
		GADUS MORHUA					1				0.0	0.3	
		AMMOCYTES SP.	5	5	24.7	20.9-32.5 TL					1.5		
		PSEUDOPLEURONECTES AMERICANUS	37	19	4.1	3.0-5.8 SL					11.2		
		ADDITIONAL LARVAE CAUGHT	BLENNIICAE PHOLIDAE UNIDENTIFIED										

TABLE 3. (continued)

CRUISE DATE [66 3 1966 STA. 74 SPECIES ANALYZED	***** LARVAE *****					***** LARVAE *****					NO. PER 10M LAFV/E	2 EGGS
	NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS	NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS		
F 4 14 04	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
GADUS MORHUA	1	1	6.5	SL	1						0.3	0.3
AMMODYTES SP.	5	5	37.3	33.7-44.0	TL						1.5	
GLYPTOCEPHALUS CYNODLOSSUS	1	1	5.6	SL							0.3	
LIWANDA FERRUGINEA	3	3	7.6	3.0- 4.0	SL						0.9	
PSEUDOPLEURONECTES AMERICANUS	23	21	4.1	2.7- 6.5	SL						7.0	
ADDITIONAL LARVAE CAUGHT	BLENNIIDAE					BLENNIIDAE						
	UNIDENTIFIED					UNIDENTIFIED						
F 5 14 04	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
GADUS MORHUA						5					0.0	4.5
GLYPTOCEPHALUS CYNODLOSSUS						2	2	4.6	4.7- 4.8	SL	0.7	
LIWANDA FERRUGINEA	8	7	3.7	3.4- 4.0	SL	33	25	4.1	3.5- 4.7	SL	13.4	
PSEUDOPLEURONECTES AMERICANUS						3	3	5.7	4.5- 6.7	SL	1.0	
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED					BLENNIIDAE						
	UNIDENTIFIED					UNIDENTIFIED						
F 6 14 04	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
GADUS MORHUA	1	1	12.2	SL	2	1	1	4.3		SL	0.6	0.7
AMMODYTES SP.	1	1	18.2	TL							0.3	
GLYPTOCEPHALUS CYNODLOSSUS	1	1	6.0	SL		1	1	5.0		SL	0.6	
LIWANDA FERRUGINEA	73	25	4.7	3.7- 6.5	SL	41	25	4.5	3.7- 7.1	SL	35.6	
ADDITIONAL LARVAE CAUGHT	BLENNIIDAE					BLENNIIDAE						
	UNIDENTIFIED					UNIDENTIFIED						
F 7 14 04	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
AMMODYTES SP.						2	2	31.2	27.6-34.8	TL	0.7	
LIWANDA FERRUGINEA	7	7	5.5	4.7- 6.2	SL	18	17	5.7	4.8- 6.9	SL	8.1	
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED					UNIDENTIFIED						
	UNIDENTIFIED					UNIDENTIFIED						
G 1 15 04	SAMPLING DEPTH 0-6M					SAMPLING DEPTH 18-33M						
GADUS MORHUA	3	3	4.3	3.8- 4.6	SL	0					0.4	0.0
AMMODYTES SP.	3	3	33.6	28.5- 37.8	TL						0.4	
GLYPTOCEPHALUS CYNODLOSSUS	1	1	5.7	SL							0.1	
LIWANDA FERRUGINEA	3	3	3.6	2.9- 4.2	SL						0.4	
PSEUDOPLEURONECTES AMERICANUS	108	25	4.3	2.9- 6.2	SL						13.1	
ADDITIONAL LARVAE CAUGHT	BLENNIIDAE					BLENNIIDAE						
	UNIDENTIFIED					UNIDENTIFIED						
G 2 15 04	SAMPLING DEPTH 0-6M					SAMPLING DEPTH 18-33M						
GADUS MORHUA						1					0.0	0.1
PELLACHIAS VIRENS	1	1	21.4	SL	0						0.1	0.0
AMMODYTES SP.	4	4	24.4	21.1- 31.6	TL						0.5	
GLYPTOCEPHALUS CYNODLOSSUS	6	5	5.6	5.0- 6.2	SL						0.7	
LIWANDA FERRUGINEA	1										0.1	
PSEUDOPLEURONECTES AMERICANUS	115	25	4.2	3.2- 5.7	SL						13.9	
ADDITIONAL LARVAE CAUGHT	BLENNIIDAE					BLENNIIDAE						
	UNIDENTIFIED					UNIDENTIFIED						
G 3 15 04	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
GADUS MORHUA	3	2	5.8	4.2- 7.4	NL	2					0.9	0.6
LIWANDA FERRUGINEA	12	12	4.2	3.4- 5.0	SL						3.6	
PSEUDOPLEURONECTES AMERICANUS	15	12	4.9	3.4- 6.2	SL						4.5	
ADDITIONAL LARVAE CAUGHT	BLENNIIDAE					BLENNIIDAE						
	PHOLIDAE					UNIDENTIFIED						
G 4 15 04	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
GADUS MORHUA	2	2	4.5	4.1- 4.5	SL	12					0.6	3.6
AMMODYTES SP.	1	1	43.8	TL							0.3	
GLYPTOCEPHALUS CYNODLOSSUS	3	2	4.7	4.7- 4.7	SL						0.9	
LIWANDA FERRUGINEA	54	25	4.0	3.1- 5.5	SL						16.4	
PSEUDOPLEURONECTES AMERICANUS	1	1	4.3	SL							0.3	
ADDITIONAL LARVAE CAUGHT	BLENNIIDAE					BLENNIIDAE						
	UNIDENTIFIED					UNIDENTIFIED						
G 5 15 04	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
AMMODYTES SP.	1	1	44.3	TL							0.3	
GLYPTOCEPHALUS CYNODLOSSUS	13	5	5.6	5.5- 5.9	SL	4	1	5.8		SL	5.2	
LIWANDA FERRUGINEA	38	25	4.3	3.5- 5.8	SL	5	4	4.2	3.3- 4.6	SL	13.1	
PSEUDOPLEURONECTES AMERICANUS	1	1	5.4	SL							0.3	
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED					UNIDENTIFIED						
	UNIDENTIFIED					UNIDENTIFIED						
G 6 14 04	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
AMMODYTES SP.	1	1	26.0	TL		1	1	32.6		TL	0.6	
LIWANDA FERRUGINEA						1	1	5.1		SL	0.3	

TABLE 3. (continued)

CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2	
066 3 1966		NUMBER LENGTHS (MM) NO.					NUMBER LENGTHS (MM) NO.					NO. PER 10M	
STA. 0 M SPECIES ANALYZED		TOTAL MEAS. MEAN RANGE MEAS. EGGS					TOTAL MEAS. MEAN RANGE MEAS. EGGS					LARVAE	
F 1 15 04		SAMPLING DEPTH 0-6M											
GLYPTOCEPHALUS CYNOGLOSSUS		1										0.1	
PSEUDOPLEURONECTES AMERICANUS		10 9 5.0 3.4- 7.0 SL										1.2	
H 2 15 04		SAMPLING DEPTH 0-15M											
GADUS MORHUA		1 1 3.5 SL					0					0.3	
AMMODYTES SP.		1 1 22.0 TL										0.3	
GLYPTOCEPHALUS CYNOGLOSSUS		1 1 5.1 SL										0.3	
PSEUDOPLEURONECTES AMERICANUS		22 22 5.3 3.7- 7.0 SL										6.7	
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED											
H 3 15 04		SAMPLING DEPTH 0-15M											
GADUS MORHUA		2 1 3.5 SL					2					0.6	
AMMODYTES SP.		1 1 30.4 TL										0.3	
GLYPTOCEPHALUS CYNOGLOSSUS		1										0.3	
LIMANDA FERRUGINEA		3 2 3.6 3.5- 3.6 SL										0.9	
PSEUDOPLEURONECTES AMERICANUS		21 21 4.9 3.7- 6.7 SL										6.4	
ADDITIONAL LARVAE CAUGHT		BLENNIIDAE											
H 4 15 04		SAMPLING DEPTH 0-15M											
GADUS MORHUA							6					0.0	
LIMANDA FERRUGINEA		3 3 5.7 3.9- 9.0 SL										0.9	
PSEUDOPLEURONECTES AMERICANUS		4 4 5.0 4.2- 6.0 SL										1.2	
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED											
F 5 15 04		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M						
GADUS MORHUA												0.0	
AMMODYTES SP.		1 1 40.2 TL					1					0.3	
GLYPTOCEPHALUS CYNOGLOSSUS							2 1 6.0 SL					0.3	
LIMANDA FERRUGINEA		51 25 4.5 3.5- 5.9 SL					93 25 4.0 2.9- 5.4 SL					30.7	
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED					BLENNIIDAE UNIDENTIFIED						
H 6 15 04		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
GADUS MORHUA		1 1 5.9 SL										0.3	
PELLACHIVUS VIPENS		1 1 27.9 SL					0					0.3	
AMMODYTES SP.		7 7 26.1 21.4-37.5 TL					3 3 33.1 26.9-37.3 TL					3.1	
GLYPTOCEPHALUS CYNOGLOSSUS		2 2 5.8 5.4- 6.2 SL					1					0.9	
LIMANDA FERRUGINEA		51 25 4.8 3.4- 6.9 SL					41 6 5.6 3.9- 8.2 SL					29.0	
ADDITIONAL LARVAE CAUGHT		ANGUILLA FCSTRATA UNIDENTIFIED											
H 7 15 04		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
AMMODYTES SP.		23 21 29.6 22.2-41.3 TL					2 2 29.0 26.0-32.1 TL					7.7	
GLYPTOCEPHALUS CYNOGLOSSUS							1 1 5.6 SL					0.3	
LIMANDA FERRUGINEA		2 2 5.5 5.2- 5.7 SL					2 2 4.6 4.4- 4.8 SL					1.3	
ADDITIONAL LARVAE CAUGHT							TETRAODONTIDAE UNIDENTIFIED						
J 1 19 04		SAMPLING DEPTH 0-6M											
SCOPHTHALMUS AQUOSUS		2 2 3.7 3.4- 3.9 SL										0.2	
PSEUDOPLEURONECTES AMERICANUS		1 1 8.2 SL										0.1	
J 2 19 04		SAMPLING DEPTH 0-6M											
SCOPHTHALMUS AQUOSUS		3 3 3.4 3.2- 3.9 SL										0.4	
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED											
J 3 16 04		SAMPLING DEPTH 0-6M											
BREVODONTIA TYRANNUS		1 1 29.4 TL										0.1	
AMMODYTES SP.		1 1 35.5 TL										0.1	
J 4 16 04		SAMPLING DEPTH 0-6M											
J 5 16 04		SAMPLING DEPTH 0-15M											
GLYPTOCEPHALUS CYNOGLOSSUS		3 3 5.6 5.2- 5.8 SL										0.9	
LIMANDA FERRUGINEA		3 2 4.8 4.2- 5.4 SL										0.9	
J 6 16 04		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M						
GADUS MORHUA							1 1 6.5 SL					0.2	
AMMODYTES SP.		4 4 35.6 32.2-39.5 TL					0					1.3	
J 7 16 04		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
AMMODYTES SP.		6 6 28.7 25.9-31.1 TL					8 6 28.3 24.2-35.8 TL					4.5	
GLYPTOCEPHALUS CYNOGLOSSUS		1 1 5.4 SL					1					0.6	
LIMANDA FERRUGINEA		5 4 5.2 4.5- 6.0 SL										1.7	

TABLE 3. (continued)

COLLECTOR DATE	STATION	SPECIES ANALYZED	NUMBER	LENGTHS (MM)	RANGE	MEAS.	NO. EGGS	NUMBER	LENGTHS (MM)	RANGE	MEAS.	NO. EGGS	NO. LARVAE	PER 10M ² EGGS
066 2 1966	04													
N 2 20 04			SAMPLING	DEPTH	0-6M									
		PREVOORTIA TYFANNUS	1	1	14.0	TL							0.1	
		ANCHOA HEPSETUS	2	2	11.4	8.0-14.5	TL						0.2	
		MYCTOPHUM AFFINE	1	1	5.2		SL						0.1	
		LEICSTOMUS XANTHURUS	1	1	9.1		SL						0.1	
		PEPRILUS TRIACANTHUS	1	1	8.6		SL						0.1	
		PRICNOTUS CARLINIUS	21	21	3.6	2.2- 5.4	SL						2.5	
		CITHARICHTHYS ARCTIFRONS	4	4	3.9	3.1- 4.6	SL						0.5	
		PARALICHTHYS DENTATUS	1	1	8.7		SL	0					0.1	0.0
		ADDITIONAL LARVAE CAUGHT	CYCLOTHENE SP. SYNOdontIDAE SERRANIDAE GOBIIDAE UNIDENTIFIED											
.....														
N 3 20 04			SAMPLING	DEPTH	0-15M			SAMPLING	DEPTH	18-24M				
		PREVOORTIA TYFANNUS	9	9	15.0	11.0-17.4	TL	4	4	15.2	14.4-16.0	TL	3.4	
		ETALMEUS SADIKA	49	49	28.7	11.0-60.8	TL	73	73	31.3	26.2-40.6	TL	26.9	
		ANCHOA HEPSETUS	2	2	15.3	11.5-19.2	TL						0.6	
		ENGRAULIS EURYSTOFE	11	11	31.1	25.0-43.1	TL	7	7	27.7	8.4-39.2	TL	4.5	
		MYCTOPHIDAE						1	1	6.9		SL	0.2	
		CERATOSCOPELUS MADERENSIS	2	2	7.1	6.2- 8.0	SL						0.6	
		CERATOSCOPELUS WAMMINCI	1	1	5.6		SL						0.3	
		HYGOPHUM BENOTTI						1	1	5.9		SL	0.2	
		LOPHIUS AMERICANUS	1	1	3.6		TL						0.3	
		HEMANTHIAS VIVANUS						2	1	3.9		SL	0.3	
		LARIMUS FASCIATUS						1	1	5.2		SL	0.2	
		LEICSTOMUS XANTHURUS	9	5	9.0	7.3-11.1	SL	4	4	8.5	6.7-10.1	SL	3.4	
		MICROPYGON UNDULATUS	1	1	5.2		SL						0.3	
		PEPRILUS TRIACANTHUS	1	1	5.9		SL	1	1	3.4		SL	0.5	
		PRICNOTUS CARLINIUS	23	23	3.6	2.3- 8.5	SL						7.4	
		RUTHUS OCCELLATUS						1					0.2	
		CITHARICHTHYS ARCTIFRONS	1	1	12.0		SL	1	1	13.1		SL	0.5	
		MACULENE SPSSILICAUCIA	1	1	7.0		SL						0.3	
		PARALICHTHYS DENTATUS	11	11	8.4	6.0-10.2	SL	5	5	9.1	6.9-11.4	SL	4.2	0.0
		SCOPHTHALMUS AQUOSUS						2	2	3.2	3.1- 3.3	SL	0.3	
		ADDITIONAL LARVAE CAUGHT	CYCLOTHENE SP. SYNOdontIDAE BREGMACEROTIDAE OPHIIDIDAE SPARIDAE SCORPAENIDAE TRIGLIDAE UNIDENTIFIED											
.....														
N 4 20 04			SAMPLING	DEPTH	0-15M			SAMPLING	DEPTH	18-33M				
		OPHIICHTHUS GOMESI	1	1	14.5		TL						0.3	
		PREVOORTIA TYFANNUS	1	1	19.0		TL						0.3	
		ETALMEUS SADIKA						3	3	12.2	6.4-15.6	TL	1.0	
		ANCHOA HEPSETUS	17	17	8.1	2.5-14.4	TL						5.7	
		ENGRAULIS EURYSTOFE						7	7	11.1	10.5-11.7	TL	2.3	
		CERATOSCOPELUS MADERENSIS	3	3	6.4	5.7- 7.3	SL	1	1	6.6		SL	1.2	
		CERATOSCOPELUS WAMMINCI						3	3	6.7	5.7- 8.6	SL	1.0	
		DIAFUS SP.	1	1	6.8		SL						0.3	
		HYGOPHUM BENOTTI						1	1	7.7		SL	0.3	
		LAMPANYCTUS ALATUS OR PHOTICCTUS	3	3	5.0	4.8- 5.1	SL						1.0	
		MYCTOPHUM AFFINE	2	2	8.0	6.9- 9.1	SL						0.7	
		UPPECHYSIS SP.	2	2	3.5	2.8- 4.3	SL	1	1	4.3		SL	0.9	
		HEMANTHIAS VIVANUS	1	1	3.2		SL	2	2	4.3	3.7- 5.0	SL	1.0	
		LEICSTOMUS XANTHURUS	1	1	4.4		SL	3	3	4.5	4.2- 4.8	SL	1.3	
		MENTICIRPHUS SP.	1										0.3	
		AUXIS SP.	2	2	6.9	6.7- 7.1	SL	1	1	7.4		SL	0.9	
		PEPRILUS TRIACANTHUS	38	38	2.5	1.4- 8.2	SL	28	26	3.5	2.3- 6.0	SL	20.7	
		PRICNOTUS CARLINIUS	4	4	6.6	5.9- 8.0	SL	9	9	2.8	2.3- 5.2	SL	4.2	
		RUTHUS OCCELLATUS	5	5	5.1	2.6-11.1	SL	2	2	12.1	8.3-15.8	SL	2.2	
		CITHARICHTHYS ARCTIFRONS						5	5	6.8	4.2-12.7	SL	1.7	
		CYCLOPSETTA FEMBRATA	1	1	4.5		SL						0.3	
		ETALPUS MICROSTOMUS	3	3	8.7	4.6-11.2	SL	1	1	6.0		SL	1.2	
		PARALICHTHYS DENTATUS	3	3	4.4	3.7- 5.6	SL	1	1	2.7		SL	1.2	0.0
		SYMPHYRUS SP.	10	5	7.2	4.1-11.6	SL	3	3	9.0	4.3-17.1	SL	4.0	
		ADDITIONAL LARVAE CAUGHT	CYCLOTHENE SP. SYNOdontIDAE BREGMACEROTIDAE OPHIIDIDAE SERRANIDAE SPARIDAE CARANGIDAE LABRIDAE OR SCARIDAE GOBIIDAE TRIGLIDAE UNIDENTIFIED											

TABLE 3. (continued)

CRUISE DATE C66 3 1966 STA. 04 SPECIES ANALYZED N 5 20 04	***** LARVAE *****					***** LARVAE *****					NO. PER 10 ² LARVAE
	NUMBER TOTAL MEAS. SAMPLING DEPTH	LENGTHS (MM) MEAN C-15M	RANGE	MEAS. SL	NO. EGGS	NUMBER TOTAL MEAS. SAMPLING DEPTH	LENGTHS (MM) MEAN 18-33M	RANGE	MEAS. SL	NO. EGGS	
MYCTOPHIDAE						1	1	4.3	SL		0.3
CERATYSCOPUS MAHERENSIS	44	44	6.4	4.7-10.2	SL	50	50	6.1	3.7- 5.7	SL	29.9
CERATYSCOPUS MAHERENSIS	48	48	4.9	3.8- 7.1	SL	55	55	4.9	3.6-10.7	SL	22.7
DIAPHUS SP.	3	3	5.3	5.0- 5.8	SL	5	5	6.8	4.3-12.1	SL	2.6
LAMPANYCTUS SP.						2	2	3.4	3.1- 3.7	SL	0.7
LAMPANYCTUS ALATUS (P. PHOTONCTUS)	3	3	4.1	4.0- 4.2	SL	1	1	4.5	SL		1.2
LAMPANYCTUS ATER	1	1	5.3		SL	1	1	7.4	SL		0.6
LAMPADENA SP.						1	1	6.2	SL		0.3
MYCTOPHUM DUTSIRIUS						1	1	6.0	SL		0.3
HEMANTHUS VIVANUS	2	2	6.2	5.3- 7.1	SL	2	2	7.2	6.0- 8.4	SL	1.3
ALXIS SP.	6	6	4.6	4.1- 5.1	SL	8	8	5.2	4.7- 6.9	SL	4.5
KATSUMONUS PELAMIS	1	1	5.6		SL						0.3
THUNNUS THYNNUS						1	1	7.7	SL		0.3
PRIONOTUS CARLINIUS	3	3	4.2	3.0- 5.3	SL						1.0
BOTHUS DELTATUS	1	1	7.2		SL	9	9	5.6	3.7-10.7	SL	3.3
CITHARICHTHYS ARCTIFONS	1	1	6.0		SL						0.3
ETROPUS MICROSTOMUS						1	1	3.7	SL		0.3
SYMPHURUS SP.						1	1	5.6	SL		0.3
ADDITIONAL LARVAE CAUGHT	CYCLOTHONE SP. SYNDONOTIDAE CHLOROPHTHALMICAE PARALEPTIDAE BREGMACROTIDAE SERRANIDAE GRAMMISTIDAE CARANGIIDAE COMACENTRIDAE LABRIDAE OR SCARIDAE MUGILICAE SPHYRAENIDAE GOBIIDAE GEMPYLIDAE SCORPAENIDAE UNIDENTIFIED					CYCLOTHONE SP. STOMIATIDAE SYNDONOTIDAE PARALEPTIDAE BREGMACROTIDAE CAPROIDAE SERRANIDAE APOGONIDAE CARANGIIDAE CORDYFHAENICAE POMACENTRIDAE LABRIDAE OR SCARIDAE CALLIONYMIDAE GOBIIDAE GEMPYLIDAE SCORPAENIDAE UNIDENTIFIED					
P 1 21 04	SAMPLING DEPTH 0- 6M										
P 2 21 04	SAMPLING DEPTH 0- 6M										
ANCHOA HEPSETUS	1	1	16.6	TL							0.1
PARALICHTHYS DENTATUS	1				0						0.1
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED										0.0
P 3 21 04	SAMPLING DEPTH 0- 6M										
PARALICHTHYS DENTATUS	1	1	5.3	SL	0						0.1
ADDITIONAL LARVAE CAUGHT	SPARICAE UNIDENTIFIED										0.0
P 4 21 04	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M					
ANCHOA HEPSETUS						2	2	20.4	20.0-20.9	TL	0.3
ANTHOSEMA SUPRORBITALE						1	1	8.9	SL		0.2
LOPHIUS AMERICANUS	2	2	4.6	4.5- 4.8	TL	9	9	4.7	3.8- 5.4	TL	2.1
LEICISTOMUS XANTHURUS	1	1	9.4		SL						0.3
PEPRILUS TRIACANTHUS	6	6	7.0	4.0-12.2	SL	3	3	7.8	7.1- 5.2	SL	2.3
CITHARICHTHYS ARCTIFONS	2	2	11.5	11.8-12.0	SL						0.6
ETROPUS MICROSTOMUS						2	2	6.5	5.4- 8.4	SL	0.3
PARALICHTHYS DENTATUS					0	1	1	4.6	SL	0	0.2
SYMPHURUS SP.	1	1	5.7	SL							0.3
ADDITIONAL LARVAE CAUGHT	CYCLOTHONE SP. OPHIIDAE SYNGNATHICAE SPARIDAE UNIDENTIFIED					OPHIIDAE SPARIDAE GOBIIDAE STROMATEIDAE UNIDENTIFIED					0.0

TABLE 3. (continued)

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CRUISE DATE	***** LARVAE *****					***** LARVAE *****					2
046 2 1966	NUMBER	LENGTHS (MM)		NO. EGGS	NO. PER 10M ²	NUMBER	LENGTHS (MM)		NO. EGGS	LAPVAE	
STA. 04	TOTAL MEAS.	MEAN	RANGE			TOTAL MEAS.	MEAN	RANGE			
SPECIES ANALYZED	SAMPLING DEPTH	C-15M				SAMPLING DEPTH	18-33M				
P 5 21 04											
MYCTOPHIDAE	2	2	4.1	4.0- 4.3 SL						1.9	
CERATOSCOPELUS MADERENSIS	3	3	6.0	5.0- 7.4 SL						1.0	
CERATOSCOPELUS WAKMINCI	40	40	4.9	3.1- 7.9 SL						21.3	
DIAPHUS SP.	6	6	4.9	4.3- 6.2 SL		28	28	5.6	3.6- 7.9 SL	8.1	
LAMFANYCTUS SP.	2	2	3.1	3.1- 3.1 SL		19	19	5.6	3.7- 5.3 SL	1.3	
LAMFANYCTUS NOBILIS						2	2	4.7	4.7- 4.7 SL	0.7	
LAMFADENA SP.						2	2	5.5	5.3- 6.6 SL	0.7	
MYCTOPHUM ORTULIRIUS						2	2	8.2	7.8- 8.6 SL	0.3	
MYCTOPHUM SELBOS						1	1	5.2		0.3	
ACTOSCOPELUS SP.	1	1	5.8		SL	1	1	4.5		0.3	
HEMANTHIAS VIANUS										0.3	
PLECTRANTHIAS GARKUPELLUS						4	4	3.3	3.2- 3.6 SL	1.3	
KATSWONUS PFLAMIS	2	2	4.5	4.5- 4.6 SL		2	2	4.0	3.8- 4.2 SL	0.7	
BETUS OCELLATUS	4	4	9.3	3.3-19.5 SL						0.7	
SYACIUM PAPILLOSUM	1	1	6.2		SL	5	5	5.6	4.4- 6.9 SL	2.9	
ADDITIONAL LARVAE CAUGHT										0.3	
						CYCLOTHONE SP.					
						VINCIGUEPRIA SP.					
						PARALEPTIDAE					
						BREGMACEDONIDAE					
						EXOCELTIDAE					
						SERRANIDAE					
						GRAMMISTIDAE					
						CHAETODONTIDAE					
						POMACENTRIDAE					
						LABRIDAE OR SCARIDAE					
						Gobiidae					
						ACANTHURIDAE					
						SCORPAENIDAE					
						UNIDENTIFIED					

[illegible]

[illegible]

TABLE 3. (continued)

CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2	
066 5 1966		NUMBER		LENGTHS (MM)		NO. EGGS	NUMBER		LENGTHS (MM)		NO. EGGS	NO. PER 10M LARVAE	EGGS
STA. 0 M SPECIES ANALYZED		TOTAL MEAS.	MEAN	RANGE	MEAS.		TOTAL MEAS.	MEAN	RANGE	MEAS.			
P 6	13 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
ENCHEL YOPUS CIMBRIUS		1	1	2.0		SL					15	0.3	23.9
GADUS MORHUA						0	3	3	6.6	5.7- 7.9	SL	0	1.0
MELANOGRAMMUS AEGLEFINUS						0	1	1	7.2		SL	0	0.3
PELLELAGIUS VIRENS		2	2	9.8	9.0-10.6	SL					0	0.7	C.C
SCOMBER SCOMBRUS						2					1	0.0	0.9
GLYPTOCEPHALUS CYNOGLOSSUS							1	1	6.6		SL		0.3
HIPPOGLOSSOIDES PIATISSOICES		3	2	9.0	6.2-11.8	SL						1.0	
LIMANDA FERRUGINEA		64	25	5.4	3.8- 8.4	SL	42	25	5.6	3.8- 7.8	SL	23.2	
ADDITIONAL LARVAE CAUGHT		COTTIDAE											
.....													
P 7	13 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
RENTHOSOMA SP.		2	2	6.1	5.5- 6.8	SL						0.7	
RENTHOSOMA GIGANTEUM							4	4	5.7	5.0- 6.8	SL		1.3
ENCHEL YOPUS CIMBRIUS		1	1	13.5		SL					9	0.3	6.6
MELANOGRAMMUS AEGLEFINUS						0	6	6	7.7	5.4-10.2	SL	0	2.0
PELLELAGIUS VIRENS						0	1	1	7.0		SL	0	0.3
GLYPTOCEPHALUS CYNOGLOSSUS							4	4	5.2	4.7- 5.8	SL		1.3
LIMANDA FERRUGINEA		1	1	6.7		SL	4	4	5.5	4.6- 6.5	SL		1.6
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED											
.....													
C 1	14 05	SAMPLING DEPTH 0-15M											
ENCHEL YOPUS CIMBRIUS						3						0.0	0.9
AMMOXYTES SP.		4	4	24.3	14.7-38.7	TL						1.2	
SCOMBER SCOMBRUS						344						0.0	104.2
LIMANDA FERRUGINEA		6	6	6.5	4.7- 7.9	SL						1.8	
PSEUDOPLEURONCTES AMERICANUS		3	3	5.5	4.8- 7.3	SL						0.9	
ADDITIONAL LARVAE CAUGHT		ANGUILLA ROSTRATA											
		COTTIDAE											
.....													
C 2	14 05	SAMPLING DEPTH 0-15M											
AMMOXYTES SP.		1	1	57.8		TL						0.3	
SCOMBER SCOMBRUS						164						0.0	49.7
LIPARIS INQUILINUS		3	3	6.3	5.3- 7.0	TL						0.9	
LIMANDA FERRUGINEA		2	2	7.2	6.1- 8.2	SL						0.6	
.....													
C 3	14 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M						
ENCHEL YOPUS CIMBRIUS		7	7	3.2	2.0- 3.8	SL	0	1	2.7		SL	0	2.3
SCOMBER SCOMBRUS						40						29	0.0
LIPARIS INQUILINUS		1	1	3.6		TL		1	3.0		TL		0.5
GLYPTOCEPHALUS CYNOGLOSSUS								2					0.3
LIMANDA FERRUGINEA		3	2	5.7	5.2- 6.2	SL		4	3	6.8	6.1- 7.7	SL	1.6
ADDITIONAL LARVAE CAUGHT		BLENNIIDAE											
.....													
C 4	14 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
ENCHEL YOPUS CIMBRIUS		9	8	3.0	2.2- 3.8	SL	0	4	4	3.3	2.5- 4.7	SL	0
GADUS MORHUA						0		1	1	5.4		SL	0
SCOMBER SCOMBRUS						18						19	0.0
GLYPTOCEPHALUS CYNOGLOSSUS		1	1	6.8		SL							0.3
LIMANDA FERRUGINEA		69	21	5.7	2.7- 9.0	SL		75	1	6.7		SL	45.7
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED					UNIDENTIFIED						
.....													
C 5	14 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
ENCHEL YOPUS CIMBRIUS		4	4	3.3	2.5- 4.4	SL	0					0	1.3
GADUS MORHUA		1	1	4.2		SL	0					0	0.9
AMMOXYTES SP.		1	1	35.2		TL							0.3
SCOMBER SCOMBRUS						6						3	0.0
PEFFILUS TREATANTHUS		1	1	4.5		SL							0.3
GLYPTOCEPHALUS CYNOGLOSSUS		2	1	6.4		SL							0.7
LIMANDA FERRUGINEA		68	25	5.2	3.5- 7.0	SL		120	25	7.0	5.7- 9.2	SL	60.4
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED					UNIDENTIFIED						
.....													
C 6	14 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
ENCHEL YOPUS CIMBRIUS		2	2	2.4	2.0- 2.8	SL	0	2	2	2.5	2.3- 3.4	SL	0
GADUS MORHUA						0		1	1	5.2		SL	0
SCOMBER SCOMBRUS						1						0	0.0
GLYPTOCEPHALUS CYNOGLOSSUS		3	1	5.0		SL							1.0
LIMANDA FERRUGINEA		60	16	6.0	4.2- 8.0	SL		94	25	6.3	3.9- 8.2	SL	49.3
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED					UNIDENTIFIED						
.....													
C 7	14 05	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
ENCHEL YOPUS CIMBRIUS						4		2	2	2.4	2.0- 2.7	SL	0
GADUS MORHUA		2	2	6.4	5.8- 7.0	SL	0	2	1	6.4		SL	0
MELANOGRAMMUS AEGLEFINUS		1	1	6.3		SL	0	2	2	8.4	7.2- 9.6	SL	0
GLYPTOCEPHALUS CYNOGLOSSUS		48	39	6.7	4.9-11.2	SL		61	52	6.2	4.2- 9.0	SL	34.7
LIMANDA FERRUGINEA		290	25	5.9	4.2- 9.1	SL		310	25	6.4	3.9- 8.7	SL	150.3
ADDITIONAL LARVAE CAUGHT							BLENNIIDAE						
							STICHAETIDAE						

TABLE 3. (continued)

CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2	
NO. 5 1966		NUMBER		LENGTHS (MM)		NO. EGGS	NUMBER		LENGTHS (MM)		NO. EGGS	NO. PER 10M LARVAE	EGGS
STA.	D.M.	SPECIES ANALYZED		TOTAL MEAS.	RANGE MEAS.		TOTAL MEAS.	MEAN	RANGE	MEAS.			
C 8	14 05			SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-33M						
		BENTHOSOMA SP.		3	3	6.8	6.5- 7.2	SL				0.3	
		BENTHOSOMA GLACIAE										1.0	
		ENCHELYOPUS CIMBRIUS									1	0.0	0.3
		GADUS MORHUA									0	1.0	0.0
		MELANOGRAMMUS AEGIEFINUS									0	0.3	C.C
		AMMODYTES SP.		2	2	36.1	33.3-39.0	TL				0.9	
		LIMANDA FERRUGINEA		4	4	7.6	6.0- 9.4	SL				2.5	
		ADDITIONAL LARVAE CAUGHT					MYCTOPHIDAE						
.....													
F 1	16 05			SAMPLING DEPTH 0-6M									
		ENCHELYOPUS CIMBRIUS		7	7	3.1	2.2- 3.9	SL			0	0.8	0.0
		AMMODYTES SP.		1	1	11.0		NL				0.1	
		SCOMBER SCOMBRUS									2752	0.0	333.5
		LIPARIS INQUILINUS		1	1	3.7		TL				0.1	
		LIMANDA FERRUGINEA		11	10	5.0	3.7- 6.2	SL				1.3	
		PELOPLEURONCTES AMERICANUS		2	1	4.2		SL				0.2	
		ADDITIONAL LARVAE CAUGHT					BLENNIIDAE						
.....													
O 2	16 05			SAMPLING DEPTH 0-6M									
		ENCHELYOPUS CIMBRIUS		11	11	3.2	2.2- 5.4	SL			0	1.3	C.C
		SCOMBER SCOMBRUS									5235	0.0	634.5
		LIPARIS INQUILINUS		1	1	4.1		TL				0.1	
		LIMANDA FERRUGINEA		176	25	5.5	3.9- 8.1	SL				21.3	
		ADDITIONAL LARVAE CAUGHT					BLENNIIDAE						
.....													
O 3	16 05			SAMPLING DEPTH 0-15M									
		ENCHELYOPUS CIMBRIUS		4	4	3.1	2.4- 3.9	SL			7	1.2	2.1
		AMMODYTES SP.		1	1	41.8		TL				0.3	
		SCOMBER SCOMBRUS									750	0.0	227.3
		LIMANDA FERRUGINEA		207	25	5.1	3.9- 6.7	SL				62.7	
		ADDITIONAL LARVAE CAUGHT					BLENNIIDAE						
.....													
O 4	16 05			SAMPLING DEPTH 0-15M									
		ENCHELYOPUS CIMBRIUS		20	17	3.6	3.0- 4.2	SL			8	6.1	2.4
		GADUS MORHUA		1	1	5.4		SL			0	0.3	0.0
		MELANOGRAMMUS AEGIEFINUS		1	1	6.2		SL			0	0.3	0.0
		SCOMBER SCOMBRUS									66	0.0	2C.C
		LIPARIS INQUILINUS		4	4	4.8	4.3- 5.2	TL				1.2	
		LIMANDA FERRUGINEA		613	25	5.0	3.7- 5.9	SL				155.7	
.....													
O 5	16 05			SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-24M						
		ENCHELYOPUS CIMBRIUS		12	12	4.3	3.3- 9.5	SL			0	5.6	0.0
		GADUS MORHUA		2	2	6.6	6.5- 6.7	SL			0	0.6	0.0
		SCOMBER SCOMBRUS									42	0.0	17.6
		LIPARIS INQUILINUS					1	1	4.6		TL	0.2	
		GLYPTOCEPHALLUS CYNOGLOSSUS		2	2	8.5	8.5- 8.5	SL			2	0.9	
		LIMANDA FERRUGINEA		624	25	4.8	3.9- 5.7	SL			617	25	251.3
		ADDITIONAL LARVAE CAUGHT					BLENNIIDAE						
							UNIDENTIFIED						
.....													
O 6	17 05			SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-33M						
		ENCHELYOPUS CIMBRIUS		2	2	3.7	3.5- 3.9	SL			0	0.9	0.0
		GADUS MORHUA		3	3	6.7	4.3- 9.2	SL			0	1.0	0.0
		AMMODYTES SP.		2	2	32.5	31.0-34.0	TL				0.7	
		SCOMBER SCOMBRUS									6	0.0	2.1
		GLYPTOCEPHALLUS CYNOGLOSSUS		6	5	6.7	5.7- 7.7	SL				3.8	
		LIMANDA FERRUGINEA		471	25	5.2	3.4- 6.7	SL			398	25	273.9
		ADDITIONAL LARVAE CAUGHT					BLENNIIDAE						
.....													
O 7	17 05			SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-33M						
		ENCHELYOPUS CIMBRIUS				0	3	3	2.5	2.3- 2.7	SL	0	1.0
		SCOMBER SCOMBRUS				2						0	0.0
		GLYPTOCEPHALLUS CYNOGLOSSUS					2	1	7.7		SL		0.7
		LIMANDA FERRUGINEA		126	25	5.1	3.4- 6.7	SL			156	25	159.8
		ADDITIONAL LARVAE CAUGHT					UNIDENTIFIED						
.....													
O 8	17 05			SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-33M						
		MYCTOPHIDAE					1	1	5.1		SL		0.3
		BENTHOSOMA SP.					1	1	6.4		SL		0.3
		ENCHELYOPUS CIMBRIUS				1	1	1	2.4		SL	0	0.3
		MELANOGRAMMUS AEGIEFINUS		1	1	9.1						0	0.3
		GLYPTOCEPHALLUS CYNOGLOSSUS		2	1	6.3							C.C
		HYPGLOSSEUS PIATISSOIDES					2					1.3	
		LIMANDA FERRUGINEA		38	25	7.3	4.7- 11.2	SL			1	1	0.3
							24	22	7.5	4.0-10.0	SL		19.4

CRUISE DATE		***** LARVAE *****					***** LARVAE *****							
STA.	TIME	NUMBER		LENGTHS (MM)		NO.	NUMBER		LENGTHS (MM)		NO.	NO.	PER 10M	
F 1	13 05	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	LARVAE	EGGS	
ENCYLYOPUS CIMBRIUS		1	1	21.2	SL	0						0.1	0.0	
SCOMBER SCOMBRUS		2	2	40.4	31.9-48.9 TL	1127						0.2	136.6	
SCOPHTHALMUS AQUOSUS		3	3	2.8	2.7- 3.0 SL							0.0		
LIMANDA FERRUGINEA		2	2	5.3	4.9- 5.7 SL							0.4		
PSEUDOPLEURONECTES AMERICANUS		14	14	7.7	4.4- 8.9 SL							0.2		
ADDITIONAL LARVAE CAUGHT		BLENNIIDAE												
		STICHAETIDAE												

F 2	19 05	SAMPLING DEPTH 0- 6M						SAMPLING DEPTH 18-24M						
ENCYLYOPUS CIMBRIUS		9	9	3.3	2.7- 4.0 SL	0						1.1	0.0	
SCOMBER SCOMBRUS						4378						0.0	530.6	
SCOPHTHALMUS AQUOSUS		1										0.1		
LIMANDA FERRUGINEA		56	25	6.3	4.6-11.5 SL							6.8		
PSEUDOPLEURONECTES AMERICANUS		2	2	7.9	7.0- 8.7 SL							0.2		
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED												

F 3	18 05	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-24M						
ENCYLYOPUS CIMBRIUS		6	6	4.0	2.7- 7.2 SL	1						1.8	0.3	
GADUS MORHUA		2	2	7.8	7.5- 8.0 SL	0						0.6	0.0	
SCOMBER SCOMBRUS						241						0.0	73.0	
LIPARIS INQUILINUS		4	4	4.7	3.9- 5.5 TL							1.2		
SCOPHTHALMUS AQUOSUS		1	1	3.1	SL							0.3		
LIMANDA FERRUGINEA		110	25	5.5	4.6- 6.4 SL							23.3		
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED												

F 4	17 05	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-24M						
ENCYLYOPUS CIMBRIUS		6	6	3.0	2.2- 3.4 SL	0	5	5	3.3	1.8- 5.2 SL	2	3.3	0.3	
GADUS MORHUA		5	4	4.7	3.9- 5.6 SL	2	1	1	5.1	SL	0	1.7	0.6	
SCOMBER SCOMBRUS						104					33	0.0	37.3	
LIPARIS INQUILINUS		4	3	5.6	5.4- 6.0 TL		4	4	6.3	5.2- 6.5 TL		1.9		
GLYPTOCEPHALUS CYNOGLOSSUS		3	3	5.3	5.1- 5.8 SL		9	4	5.5	4.9- 6.6 SL		2.4		
LIMANDA FERRUGINEA		162	25	5.5	4.1- 7.4 SL		275	25	5.1	3.3- 6.7 SL		54.8		
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED					ANGUILLA FOSTRATA							
							BLENNIIDAE							
							UNIDENTIFIED							

F 5	17 05	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-24M						
ENCYLYOPUS CIMBRIUS		1	1	1.8	SL	1	1	1	2.8	SL	1	0.5	0.5	
SCOMBER SCOMBRUS						7					8	0.0	3.5	
GLYPTOCEPHALUS CYNOGLOSSUS		2	1	7.1	SL		1	1	8.8	SL		0.8		
LIMANDA FERRUGINEA		286	25	6.0	3.5- 9.2 SL		138	25	6.1	3.2- 8.9 SL		110.1		
ADDITIONAL LARVAE CAUGHT		BLENNIIDAE												
		UNIDENTIFIED												

F 6	17 05	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-24M						
ENCYLYOPUS CIMBRIUS		11	11	3.2	2.5- 3.8 SL	0	12	12	3.2	2.5- 3.7 SL	0	5.3	0.0	
SCOMBER SCOMBRUS						3					0	0.0	1.0	
GLYPTOCEPHALUS CYNOGLOSSUS		4	4	6.9	5.1- 9.6 SL		3	3	5.4	4.6- 6.1 SL		1.7		
LIMANDA FERRUGINEA		191	25	4.2	2.9- 8.7 SL		109	25	4.2	2.8- 6.5 SL		76.3		
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED					UNIDENTIFIED							

F 7	17 05	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-24M						
ADDITIONAL LARVAE CAUGHT							UNIDENTIFIED							

F 8	17 05	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-24M						
ENCYLYOPUS CIMBRIUS						1					3	0.0	1.3	

F 1	18 05	SAMPLING DEPTH 0- 6M						SAMPLING DEPTH 18-24M						
SCOMBER SCOMBRUS						249						0.0	30.2	
SCOPHTHALMUS AQUOSUS		62	59	2.9	2.1- 4.3 SL							7.5		
LIMANDA FERRUGINEA		1	1	4.5	SL							0.1		

F 2	18 05	SAMPLING DEPTH 0- 6M						SAMPLING DEPTH 18-24M						
SCOMBER SCOMBRUS						413						0.0	50.1	
SCOPHTHALMUS AQUOSUS		40	33	3.1	2.4- 4.6 SL							4.8		

F 3	18 05	SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-24M						
ENCYLYOPUS CIMBRIUS		1	1	22.4	SL	0					0	0.3	0.0	
TAUTOGA DITIS		1										0.3		
SCOMBER SCOMBRUS						2489					2168	0.0	1114.6	
SCOPHTHALMUS AQUOSUS		4	4	2.7	2.5- 3.0 SL		2	2	3.1	2.8- 3.3 SL		1.6		
LIMANDA FERRUGINEA		17	17	6.2	3.7- 9.9 SL		13	12	6.1	4.7- 6.9 SL		7.3		
PSEUDOPLEURONECTES AMERICANUS		2	2	7.0	5.9- 8.1 SL							0.6		
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED												

TABLE 3. (continued)

CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2	
STA.	D M	SPECIES ANALYZED		NUMBER	LENGTHS (MM)	NO.	NUMBER	LENGTHS (MM)	NO.		NO. PER 10M		
F 4	18 05			TOTAL MEAS.	MEAN RANGE MEAS.	EGGS	TOTAL MEAS.	MEAN RANGE MEAS.	EGGS		LARVAE		
				SAMPLING DEPTH	0-15M						EGGS		
		EACHELYDOPUS CIMBRIUS		2	2 4.0 3.6- 4.3 SL	0					0.6		
		SCOMBER SCOMBRUS				1528					0.0		
		LIPARIS INQUILINUS		1	1 10.4						463.0		
		SCOPHTHALMUS AQUOSUS		1	1 3.7						0.3		
		LIMANDA FERRUGINEA		32	31 6.0 4.4- 8.7 SL						0.3		
		PSEUDOPLEURONECTES AMERICANUS		3	3 7.8 7.5- 8.2 SL						9.7		
		ADDITIONAL LARVAE CAUGHT		LABRIDAE CF SCARICAE								0.9	
F 5	19 05			SAMPLING DEPTH	0-15M		SAMPLING DEPTH	1E-33M					
		EACHELYDOPUS CIMBRIUS		5	5 5.6 2.5-15.4 SL	5	4	4 3.5 2.8- 4.6 SL	0		2.8		
		SCOMBER SCOMBRUS				47			16		0.0		
		LIPARIS INQUILINUS		7	3 7.2 6.3- 9.0 TL		2	2 5.3 5.3- 5.3 TL			19.4		
		GLYPTOCEPHALUS CYNOGLOSSUS		3	3 5.8 5.2- 6.7 SL		4	3 6.0 4.7- 8.2 SL			2.8		
		LIMANDA FERRUGINEA		356	25 5.9 2.9-10.2 SL		150	25 6.0 3.7- 5.6 SL			2.2		
		PSEUDOPLEURONECTES AMERICANUS					1	1 8.7			156.8		
											0.3		
F 6	18 05			SAMPLING DEPTH	0-15M		SAMPLING DEPTH	18-33M					
		EACHELYDOPUS CIMBRIUS		1	1 2.4	0			0		0.3		
		GADUS MORHUA				0	1	1 10.4			0.0		
		SCOMBER SCOMBRUS				7			4		0.3		
		LIPARIS INQUILINUS		3	3 7.1 6.5- 7.8 TL		2	2 5.5 5.5- 6.0 TL			0.0		
		GLYPTOCEPHALUS CYNOGLOSSUS		1	1 5.7		5	4 7.2 6.7- 8.0 SL			3.4		
		LIMANDA FERRUGINEA		513	25 4.9 3.5- 8.3 SL		326	25 5.5 4.2- 8.4 SL			1.6		
		ADDITIONAL LARVAE CAUGHT		BLENNIOIDE								2.0	
											262.5		
F 7	19 05			SAMPLING DEPTH	0-15M		SAMPLING DEPTH	18-33M					
		EACHELYDOPUS CIMBRIUS				1			0		0.0		
		SCOMBER SCOMBRUS				2			1		0.0		
		GLYPTOCEPHALUS CYNOGLOSSUS		1	1 8.5		1	1 7.4			0.9		
		LIMANDA FERRUGINEA		58	25 7.3 5.2-10.2 SL		49	25 6.9 5.5- 8.9 SL			0.6		
											33.7		
C 1	19 05			SAMPLING DEPTH	0- 6M								
		SCOMBER SCOMBRUS				1212					0.0		
		SCOPHTHALMUS AQUOSUS		41	40 2.9 2.2- 5.1 SL						146.9		
		PSEUDOPLEURONECTES AMERICANUS		3	3 7.6 5.8- 8.7 SL						5.0		
											0.4		
C 2	19 05			SAMPLING DEPTH	0- 6M								
		TAUTOGA ONITIS		22	3 2.3 2.1- 2.6 TL						2.7		
		SCOMBER SCOMBRUS				1029					0.0		
		SCOPHTHALMUS AQUOSUS		58	53 2.9 2.3- 4.2 SL						124.7		
		PSEUDOPLEURONECTES AMERICANUS		4	4 7.7 7.4- 7.9 SL						7.0		
											0.5		
G 3	19 05			SAMPLING DEPTH	0-15M								
		EACHELYDOPUS CIMBRIUS		1	1 3.5	1					0.3		
		TAUTOGA ONITIS		18	1 2.5						0.2		
		SCOMBER SCOMBRUS				517					5.5		
		SCOPHTHALMUS AQUOSUS		30	25 2.9 2.5- 4.6 SL						0.0		
		GLYPTOCEPHALUS CYNOGLOSSUS		1							156.7		
		LIMANDA FERRUGINEA		3	1 3.2						9.1		
		PSEUDOPLEURONECTES AMERICANUS		12	12 8.3 7.7- 9.1 SL						0.3		
		ADDITIONAL LARVAE CAUGHT		BLENNIOIDE UNIDENTIFIED								0.9	
											3.6		
C 4	19 05			SAMPLING DEPTH	0-15M		SAMPLING DEPTH	18-33M					
		EACHELYDOPUS CIMBRIUS				0			2		0.0		
		SCOMBER SCOMBRUS				88			32		0.0		
		SCOPHTHALMUS AQUOSUS					1	1 3.5			0.3		
		GLYPTOCEPHALUS CYNOGLOSSUS		2	2 5.2 4.9- 5.5 SL		3	2 6.4 6.2- 6.7 SL			1.6		
		LIMANDA FERRUGINEA		87	25 4.0 2.7- 5.8 SL		191	25 4.4 3.3- 5.6 SL			89.8		
		ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED									
G 5	19 05			SAMPLING DEPTH	0-15M		SAMPLING DEPTH	1E-33M					
		EACHELYDOPUS CIMBRIUS		2	2 3.5 3.5- 3.5 SL	1	1	1 3.7	0		0.9		
		SCOMBER SCOMBRUS				1			0		0.0		
		GLYPTOCEPHALUS CYNOGLOSSUS		1	1 5.4						0.3		
		LIMANDA FERRUGINEA		178	25 4.2 3.1- 5.3 SL		288	25 5.0 2.9- 6.2 SL			149.4		
		ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED									
G 6	19 05			SAMPLING DEPTH	0-15M		SAMPLING DEPTH	1E-33M					
		SCOMBER SCOMBRUS				0			2		0.0		
		LIMANDA FERRUGINEA		10	7 6.6 5.7- 7.3 SL		4	3 7.1 6.5- 7.7 SL			0.7		
											4.3		

TABLE 3. (continued)

CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2			
C66 5 1966		NUMBER LENGTHS [MM]					NUMBER LENGTHS [MM]					NO. PER 10M			
STA. 04 SPECIES ANALYZED		TOTAL MEAS. MEAN RANGE MEAS. EGGS					TOTAL MEAS. MEAN RANGE MEAS. EGGS					L/FVFE			
H 1 19 05		SAMPLING DEPTH 0-3M													
CYANOSION SP.		2	2	2.7	2.7- 2.8	SL	326						0.1		
MENTIGIRRHUS SP.		4	4	2.8	2.5- 3.4	SL							0.2		
SCOMBER SCOMBRUS													0.0	15.6	
PEFFILUS TRIACANTHUS		1	1	8.7		SL							0.1		
SCOPHTHALMUS AQUOSUS		47	42	3.3	2.4- 5.4	SL							2.8		
LIMANDA FERRUGINEA		1	1	4.5		SL							0.1		
PSEUDOPLEURONECTES AMERICANUS		3	3	7.4	7.1- 7.7	SL						0.2			
ADDITIONAL LARVAE CAUGHT		STROMATEIDAE UNIDENTIFIED													
.....															
F 2 19 05		SAMPLING DEPTH 0-15M													
SCOMBER SCOMBRUS							766						0.0	238.2	
SCOPHTHALMUS AQUOSUS		102	50	3.3	2.3- 4.6	SL							30.9		
LIMANDA FERRUGINEA		4	3	6.4	5.4- 7.2	SL							1.2		
PSEUDOPLEURONECTES AMERICANUS		8	7	6.7	3.7- 8.5	SL							2.4		
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED													
.....															
F 3 19 05		SAMPLING DEPTH 0-15M													
TAUTOGA ONITIS		15	1	2.6		TL	42						4.5		
SCOMBER SCOMBRUS													0.0	12.7	
SCOPHTHALMUS AQUOSUS		60	46	2.9	2.3- 3.8	SL							18.2		
LIMANDA FERRUGINEA		21	20	6.5	5.2- 8.8	SL							6.4		
PSEUDOPLEURONECTES AMERICANUS		1	1	6.2		SL						0.3			
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED													
.....															
H 4 20 05		SAMPLING DEPTH 0-15M													
EACHELYOPLIS CIMBRIUS		3	3	3.7	3.2- 4.1	SL	203						0.9	0.0	
GADUS MORhua		1	1	14.6		SL							0.3	0.0	
SCOMBER SCOMBRUS													0.0	61.5	
LIPARIS INQUILINUS		1	1	8.6		TL							0.3		
SCOPHTHALMUS AQUOSUS		10	9	3.1	2.5- 4.1	SL							3.0		
GLYPTOCEPHALUS CYNOGLOSSUS		1	1	5.2		SL							0.3		
LIMANDA FERRUGINEA		55	25	6.3	4.4- 7.5	SL						16.7			
.....															
F 5 20 05		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M								
EACHELYOPLIS CIMBRIUS		1	1	3.4		SL	0	3	2	3.4	3.2- 3.5	SL	0	0.8	0.0
MERLUCCIIUS BILINEARIS							0					1	0.0	0.0	
SCOMBER SCOMBRUS							E3					108	0.0	43.0	
SCOPHTHALMUS AQUOSUS		4	4	3.1	3.0- 3.3	SL		7	7	3.0	2.8- 3.5	SL		2.4	
GLYPTOCEPHALUS CYNOGLOSSUS		1						2	2	5.6	5.4- 5.8	SL		0.6	
LIMANDA FERRUGINEA		64	25	5.9	3.5- 7.1	SL		33	22	5.4	2.9- 7.7	SL		25.0	
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED					UNIDENTIFIED								
.....															
F 6 20 05		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M								
EACHELYOPLIS CIMBRIUS							0	1	1	3.7		SL	0	0.3	0.0
SCOMBER SCOMBRUS							4						0	0.0	1.3
SCOPHTHALMUS AQUOSUS		2												0.7	
GLYPTOCEPHALUS CYNOGLOSSUS		1	1	5.4		SL								0.3	
LIMANDA FERRUGINEA		4	2	4.3	2.9- 5.7	SL		22	17	6.5	4.9- 7.5	SL		8.5	
.....															
F 7 20 05		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M								
EACHELYOPLIS CIMBRIUS		1	1	2.4		SL	0						0	0.3	0.0
LIMANDA FERRUGINEA								3						1.0	
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED					UNIDENTIFIED								
.....															
J 1 21 05		SAMPLING DEPTH 0-6M													
TAUTOGA ONITIS		1	1	3.1		TL	5						0.1		
SCOMBER SCOMBRUS													0.0	0.6	
SCOPHTHALMUS AQUOSUS		9	8	4.0	2.7- 6.2	SL							1.1		
LIMANDA FERRUGINEA		1											0.1		
ADDITIONAL LARVAE CAUGHT		SYNGNATHIDAE UNIDENTIFIED													
.....															
J 2 21 05		SAMPLING DEPTH 0-6M													
BREVDORTIA TYFANNUS		1	1	25.0		TL	21						0.1		
SCOMBER SCOMBRUS													0.0	2.5	
SCOPHTHALMUS AQUOSUS		41	40	3.5	2.7- 5.5	SL							5.0		
ADDITIONAL LARVAE CAUGHT		SYNGNATHIDAE													
.....															
J 3 21 05		SAMPLING DEPTH 0-6M													
BREVDORTIA TYFANNUS		1	1	25.0		TL	15						0.1		
SCOMBER SCOMBRUS		4	4	3.6	3.2- 4.3	SL							0.5	1.8	
SCOPHTHALMUS AQUOSUS		205	50	3.1	2.2- 4.8	SL							24.8		
LIMANDA FERRUGINEA		2	2	8.9	8.7- 9.1	SL							0.2		
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED													

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[illegible]

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CRUISE DATE		***** LARVAE *****				***** LARVAE *****				2	
STA.	D M	SPECIES ANALYZED	NUMBER	LENGTHS (MM)	NO.	NUMBER	LENGTHS (MM)	NO.	NO. PER 10M	2	
N 5	23 05		TOTAL MEAS.	MEAN	RANGE	TOTAL MEAS.	MEAN	RANGE	EGGS	EGGS	
			SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-33M					
		ANCHOA HEPSETUS	81	41	12.3	8.3-19.3	TL			27.3	
		MYCTOPHIDAE	2	2	4.9	4.3-5.6	SL			0.9	
		CERATOSCOPELUS MADEREENSIS								0.3	
		DIAPYCNUS SP.								0.3	
		UPECHYCHUS SP.								0.3	
		HEMANTHIAS VILANUS	1	1	4.5					2.6	
		PEMATOMUS SAL TATRIX	17	17	7.7	5.1-9.1	SL			5.7	
		AUXIS SP.	6	6	6.1	5.0-7.4	SL			5.1	
		SARCA SARCA							0	0.3	
		PEPILUS TRIACANTHUS	14	14	4.7	2.6-6.9	SL			6.2	
		BETHUS OCELLATUS	3	3	3.8	3.3-4.7	SL			7.9	
		CYCLOPSETTA FIMBRIATA	2	2	4.9	3.5-6.2	SL			0.9	
		SYACIUM PAPILLOSUM	10	10	3.8	2.9-4.5	SL			13.7	
		SYMPHURUS SP.	21	18	6.2	3.6-10.0	SL			13.6	
ADDITIONAL LARVAE CAUGHT		SYNOODONTIDAE				SYNOODONTIDAE					
		EPHIIDIDAE				LOPHIIFORMES					
		EXOCENTRIDAE				OPHIIDIDAE					
		HOLOCENTRIDAE				HOLOCENTRIDAE					
		SERRANIDAE				SERRANIDAE					
		CARANGIDAE				APOGONIDAE					
		SPARIDAE				CARANGIDAE					
		LABRIDAE OR SCARIDAE				SPARIDAE					
		MUGILIDAE				LABRIDAE OR SCARIDAE					
		SPHYRAENIDAE				SPHYRAENIDAE					
		GOBIIDAE				GOBIIDAE					
		SCORPAENIDAE				ACANTHURIDAE					
		BALISTIDAE				STROMATEIDAE					
		UNIDENTIFIED				SCORPAENIDAE					
						TRIGLIDAE					
						BALISTIDAE					
						UNIDENTIFIED					
.....											
N 1	24 05		SAMPLING DEPTH 0-15M								
		SARDINELLA ANCHOVIA	6	5	15.7	12.9-18.6	TL			1.8	
		ENGRAULIS EURYSTOLE	6	6	10.1	6.0-14.0	TL			1.8	
		SYMPHURUS SP.	6	5	10.4	5.2-13.2	SL			1.8	
ADDITIONAL LARVAE CAUGHT		CARANGIDAE									
		SPARIDAE									
		LABRIDAE OR SCARIDAE									
		BALISTIDAE									
		UNIDENTIFIED									
.....											
N 2	24 05		SAMPLING DEPTH 0-15M								
		SARDINELLA ANCHOVIA	2	2	16.3	15.0-17.6	TL			0.6	
		ANCHOA HEPSETUS	9	9	13.9	9.4-17.4	TL			2.7	
		ENGRAULIS EURYSTOLE	1	1	23.0		TL			0.3	
		LARBUS FASCIATUS	1	1	4.7		SL			0.3	
		PEPILUS TRIACANTHUS	2	2	4.8	4.7-5.0	SL			0.6	
		SYMPHURUS SP.	4	4	9.2	6.0-11.8	SL			1.2	
ADDITIONAL LARVAE CAUGHT		SYNOODONTIDAE									
		BREGMACEROTIDAE									
		EPHIIDIDAE									
		LABRIDAE OR SCARIDAE									
		GOBIIDAE									
		BALISTIDAE									
		UNIDENTIFIED									
.....											
CRUISE DATE		***** LARVAE *****				***** LARVAE *****				2	
STA.	D M	SPECIES ANALYZED	NUMBER	LENGTHS (MM)	NO.	NUMBER	LENGTHS (MM)	NO.	NO. PER 10M	2	
N 3	24 05		TOTAL MEAS.	MEAN	RANGE	TOTAL MEAS.	MEAN	RANGE	EGGS	EGGS	
		SARDINELLA ANCHOVIA	4	4	17.5	11.0-23.5	TL			1.6	
		ANCHOA HEPSETUS	20	20	10.9	7.4-16.0	TL			23.4	
		ENGRAULIS EURYSTOLE	3	3	11.0	8.1-12.8	TL			1.0	
		MYCTOPHIDAE								0.2	
		CERATOSCOPELUS SP.								0.6	
		CERATOSCOPELUS MADEREENSIS								0.2	
		PEMATOMUS SAL TATRIX								0.2	
		SARCA SARCA								0.0	
		PEPILUS TRIACANTHUS	19	19	4.4	2.8-11.7	SL			14.3	
		PRIONOTUS CAROLINUS								0.3	
		CITHARICHTHYS ARCIFRONS								0.2	
		CYCLOPSETTA FIMBRIATA	1	1	7.0		SL			0.3	
		ETROPIS MICROSTOMUS								1.5	
		SYACIUM PAPILLOSUM								0.3	
		SYMPHURUS SP.	9	9	8.6	5.3-14.3	SL			6.2	
ADDITIONAL LARVAE CAUGHT		SYNOODONTIDAE				OPHIIDIDAE					
		LOPHIIFORMES				SYNOODONTIDAE					
		BREGMACEROTIDAE				PARALEPIDIDAE					
		EPHIIDIDAE				LOPHIIFORMES					
		SERRANIDAE				BREGMACEROTIDAE					
		CARANGIDAE				OPHIIDIDAE					
		SPARIDAE				SERRANIDAE					
		LABRIDAE OR SCARIDAE				CARANGIDAE					
		GOBIIDAE				SPARIDAE					
		STROMATEIDAE				LABRIDAE OR SCARIDAE					
		TRIGLIDAE				MUGILIDAE					
		BALISTIDAE				GOBIIDAE					
		UNIDENTIFIED				TRICHIURIDAE					
						STROMATEIDAE					
						SCORPAENIDAE					
						TRIGLIDAE					
						BALISTIDAE					
						TETRAODONTIDAE					
						UNIDENTIFIED					

CRUISE DATE			***** LARVAE *****					***** LARVAE *****					2	
066 5 1966			NUMBER		LENGTHS (MM)		NO.	NUMBER		LENGTHS (MM)		NO.	2	
STA.	D M	SPECIES ANALYZED	TOTAL MEAS.		MEAN RANGE MEAS.		EGGS	TOTAL MEAS.		MEAN RANGE MEAS.		EGGS	NO. PER 10M	
N 4	24 05		SAMPLING DEPTH		0-15M			SAMPLING DEPTH		18-33M			LARVAE	
		OPHICHTHUS GOMESI							1	1	21.0			0.3
		SARCIINELLA ANCHOVIA							1	1	10.2			1.5
		ANCHOA MEFSETLS	4	4	6.3	5.4-7.4	TL		33	33	10.6	6.8-14.6	TL	11.0
		ENGRANULIS FURCOSTIF							9	9	5.4	6.5-12.2	TL	3.0
		CERATOSCOPELUS MAHERENSIS	2	2	8.7	7.8-9.7	SL		1	1	8.9			0.9
		CERATOSCOPELUS WAMMINGI	6	6	6.8	5.2-10.4	SL		1	1	5.2			2.1
		CIAPHUS SP.	2	2	4.2	3.5-4.9	SL		5	5	6.2	3.9-7.5	SL	2.3
		HYGROPHUM PENNITTI							1	1	4.5			0.3
		LAMPANYCTUS ALATUS OR RHOTEAOTUS							2	2	4.2	3.5-4.9	SL	0.7
		LAMPANYCTUS ATER							1	1	5.8			0.3
		MYCROPHUM AFFINE							2	2	4.8	4.3-5.3	SL	0.7
		MYCROSCOPELUS RESPLENDENS							1	1	8.2			0.3
		MYROPHYSIS SP.							4	2	2.5	2.2-2.8	ML	1.3
		HEMANTHUS VIVIANUS							1	1	4.8			0.3
		PERCANTHUS SALTATRYX	1	1	5.1		SL							0.3
		LARIMUS FASCIATUS	1	1	3.9		SL							0.3
		AUXIS SP.	13	13	5.5	5.0-7.6	SL		15	15	6.7	4.6-9.5	SL	8.9
		ELTHYNNUS ALLETTREATUS	1	1	6.7		SL		1	1	6.5			0.6
		SARPA SARPA						9						0.0
		PERILUS TRIACANTHUS	4	4	3.9	3.4-4.5	SL		15	15	3.6	1.8-4.9	SL	6.2
		ACTHUS OCELLATUS	92	25	4.3	2.7-6.7	SL		123	25	4.7	3.1-6.7	SL	68.6
		CYCLOPSETTA FIMBRIATA	2	2	4.1	4.0-4.2	SL		2	2	5.5	4.2-6.7	SL	1.3
		SYACIUM PAPILLOSUM	94	25	3.8	2.5-5.4	SL		106	25	3.9	2.6-6.5	SL	63.5
		SYMPHYRUS SP.	24	24	5.6	3.1-11.5	SL		97	93	5.7	3.2-14.2	SL	39.5
ADDITIONAL LARVAE CAUGHT			MURAENIDAE					MURAENIDAE						
			CYCLOTHONE SP.					CYCLOTHONE SP.						
			SYNOODONTIDAE					SYNOODONTIDAE						
			LOPHIIFORMES					LOPHIIFORMES						
			OPHIIDIIDAE					OPHIIDIIDAE						
			CARAPIDAE					CARAPIDAE						
			HOLOCENTRIDAE					HOLOCENTRIDAE						
			CAPROIDAE					CAPROIDAE						
			FISTULARIIDAE					FISTULARIIDAE						
			SERRANIDAE					SERRANIDAE						
			APOGONIDAE					APOGONIDAE						
			CARANGIIDAE					CARANGIIDAE						
			CORYPHAENIDAE					CORYPHAENIDAE						
			SPARIDAE					SPARIDAE						
			POMACENTRIDAE					POMACENTRIDAE						
			LABRIDAE OR SCARIDAE					LABRIDAE OR SCARIDAE						
			BLENNIIDAE					BLENNIIDAE						
			CALLIONYMIDAE					CALLIONYMIDAE						
			COBIIDAE					COBIIDAE						
			TRICHIURIDAE					TRICHIURIDAE						
			STROMATEIDAE					STROMATEIDAE						
			SCORPAENIDAE					SCORPAENIDAE						
			TRIGLIIDAE					TRIGLIIDAE						
			ECTYLOPTERUS VOLITANS					ECTYLOPTERUS VOLITANS						
			BALISTICAE					BALISTICAE						
			UNIDENTIFIED					UNIDENTIFIED						

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CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2
C66 5 1966		NUMBER	LENGTHS (MM)		NO.	NUMBER	LENGTHS (MM)		NO.	NO. PER 100		
STA.	D M	TOTAL MEAS.	MEAN	RANGE	MEAS. EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS. EGGS	LARVAE		
SPECIES ANALYZED		SAMPLING DEPTH		C- 6M		SAMPLING DEPTH		18-24M				
P 3	24 05											
ANCHOA HEPSETUS		3	3	16.6	14.6-18.6 TL					0.4		
MYCTOPHIDAE		6	6	4.0	3.3-4.3 SL					0.7		
ERRATODON PFLUS SP.		9	9	4.3	3.4-5.6 SL					1.1		
PEMATOMUS SALTATRIX		4	4	3.5	3.4-3.9 SL					0.5		
AUXIS SP.		7	6	4.1	3.5-4.8 SL					0.8		
ETROPUS MICROSTOMUS		3	3	2.5	2.2-2.7 SL					0.4		
SYACIUM PAPILLOSUM		1								0.1		
ADDITIONAL LARVAE CAUGHT		CYCLOTHONE SP.										
		LOPHIIFORMES										
		SERRANIDAE										
		APOGONIDAE										
		CARANGIDAE										
		ORYZIASIDAE										
		SPARIDAE										
		MUGILIDAE										
		SPHYRAENIDAE										
		CALLIONYMIDAE										
		GOBIIDAE										
		EMPYRIDAE										
		SCORPAENIDAE										
		BALISTIDAE										
		UNIDENTIFIED										
.....												
P 4	24 05	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-24M						
OPHIOTHUS GOMESI		17	17	12.3	6.8-20.0 TL	16	16	9.6	3.9-16.8 TL	0.2		
ANCHOA HEPSETUS						1	1	7.4	SL	7.8		
LAMELNYCTUS CLIPINUS						1	1	5.8	SL	0.2		
NOTOLYCHNUS VALDIVAE						1	1	2.9	SL	0.2		
CYNOSCION SP.						5	5	3.5	3.2-4.6 SL	1.7		
PEPRILUS TRIACANTHUS		3	3	4.4	3.7-5.1 SL	1	1	7.5	SL	0.5		
RETHIS OCELLATUS		1	1	3.6	SL	3	3	3.1-5.4	SL	0.5		
ETROPUS MICROSTOMUS						1	1	6.1	SL	0.2		
SYACIUM PAPILLOSUM						1	1	4.0	SL	0.2		
SYMPHURUS SP.												
ADDITIONAL LARVAE CAUGHT		SYNDONTIDAE										
		LOPHIIFORMES										
		OPHIIDAE										
		SERRANIDAE										
		CARANGIDAE										
		SPARIDAE										
		BLENNIIDAE										
		GOBIIDAE										
		STROMATEIDAE										
		TRIGLIDAE										
		BALISTIDAE										
		TETRAODONTIDAE										
		UNIDENTIFIED										
		OPHIOTHIDAE										
		SYNDONTIDAE										
		LOPHIIFORMES										
		BREGMATERIDAE										
		OPHIIDAE										
		SERRANIDAE										
		CARANGIDAE										
		SPARIDAE										
		BLENNIIDAE										
		CALLIONYMIDAE										
		GOBIIDAE										
		TRICHIURIDAE										
		STROMATEIDAE										
		TRIGLIDAE										
		BALISTIDAE										
		TETRAODONTIDAE										
		UNIDENTIFIED										

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CRUISE DATE			***** LARVAE *****							***** LARVAE *****							NO. PER 10M		2	
STA.	DATE	SPECIES ANALYZED	NUMBER	MEAS.	MEAN	LENGTHS (MM)	NO.	NUMBER	MEAS.	MEAN	LENGTHS (MM)	NO.	EGGS	LA FIVE	EGGS	EGGS				
P 5	24 05		TOTAL	DEPTH	0-15M			TOTAL	DEPTH	10-33M										
		ACHILIA EGMENTIS	1	1	77.5		TL									0.3				
		ANCHORA HEPSETUS						13	13	7.5	4.6-11.4	TL				4.3				
		MYCTOPHIDAE	1					3	3	3.9	3.7- 4.3	SL				1.3				
		CERATOSCOPELUS MAHEFENSIS	2	2	6.4	5.3- 7.5	SL	9	9	7.2	4.4-11.9	SL				3.6				
		CERATOSCOPELUS WAKMINGI	5	5	6.5	5.5- 7.5	SL	15	15	4.5	3.4- 7.4	SL				6.5				
		OTAPHIUS SP.	6	6	5.6	4.1- 8.0	SL	27	27	4.7	3.5- 7.1	SL				10.8				
		HYGOPHUM TANNINGI	1	1	6.3		SL									0.3				
		LAMFANYCTUS ALATUS OR PHOTONOTUS						1	1	3.4		SL				0.3				
		LAMFADENA SP.						1	1	5.4		SL				0.3				
		MYCTOPHUM SP.						2	2	4.9	4.6- 5.2	SL				0.7				
		HEMANTHIAS VIVANUS						2	2	4.1	3.6- 4.6	SL				0.7				
		AUXIS SP.	9	9	5.7	4.0-10.6	SL	11	11	4.7	3.8- 6.0	SL				6.4				
		EUTYNNUS ALLETTENATUS	3	3	5.5	4.5- 7.4	SL	2	2	5.1	3.8- 6.4	SL				1.6				
		KATSUMONUS PELAMIS	7	7	6.6	6.2- 7.1	SL	1	1	4.5		SL				2.4				
		SARIA SARCA					0						1			0.0				
		SCOPBEROMORUS CAVALIA	4	4	3.8	3.6- 4.2	SL	11	11	3.9	3.4- 4.8	SL				4.9				
		THUNNUS ALBACARES						1	1	4.1		SL				0.3				
		THUNNUS ALBACARES OR ALALUNGA	1	1	5.3		SL									0.3				
		THUNNUS OBESE OR ATLANTICUS	1	1	4.5		SL									0.3				
		PRICNOTUS CARLINUS	1	1	5.5		SL									0.3				
		RETHUS OCELLATUS	16	16	5.8	3.0-13.7	SL	6	6	5.6	4.4- 7.6	SL				6.8				
		ETROPUS MICROSTOMUS	4	4	6.0	3.9- 8.3	SL									1.3				
		SYACIUM PAPILLOSUM	10	10	4.3	2.6- 6.9	SL	14	14	3.8	2.2- 6.3	SL				7.7				
		SYMPHURUS SP.	4	4	3.8	3.3- 4.7	SL	6	5	4.6	3.1- 6.0	SL				3.2				
		ADDITIONAL LARVAE CAUGHT																		
		MURAENIDAE																		
		OPHICHTHIDAE																		
		SYNODONTIDAE																		
		LOPHIIFORMES																		
		BREGMACETIDAE																		
		OPHIIDIDAE																		
		HOLOCENTRIDAE																		
		SERRANIDAE																		
		PRIACANTHIDAE																		
		APOGONIDAE																		
		CARANGIDAE																		
		CORYPHAENIDAE																		
		CHAETODONTIDAE																		
		POMACENTRIDAE																		
		LABRIDAE OR SCARIDAE																		
		BLENNIIDAE																		
		CALLIONYMIDAE																		
		Gobiidae																		
		ACANTHURIDAE																		
		CEMPYLIDAE																		
		SCORPAENIDAE																		
		TRIGLICAE																		
		BALISTIDAE																		
		UNIDENTIFIED																		
		ANGUILLIFORMES																		
		MURAENIDAE																		
		OPHICHTHIDAE																		
		SYNODONTIDAE																		
		PARALEPIDIDAE																		
		LOPHIIFORMES																		
		OPHIIDIDAE																		
		HOLOCENTRIDAE																		
		SERRANIDAE																		
		GRAMMISTIDAE																		
		PRIACANTHIDAE																		
		APOGONIDAE																		
		CARANGIDAE																		
		SPARIDAE																		
		CHAETODONTIDAE																		
		POMACENTRIDAE																		
		LABRIDAE OR SCARIDAE																		
		MUGILIDAE																		
		SPHYRAENIDAE																		
		CALLIONYMIDAE																		
		Gobiidae																		
		ACANTHURIDAE																		
		SCORPAENIDAE																		
		BALISTIDAE																		

TABLE 3. (continued)

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CRUISE DATE		***** LARVAE *****						***** LARVAE *****						2	
066 7 1966		NUMBER		LENGTHS (MM)		NO.	NUMBER		LENGTHS (MM)		NO.	NO. PER 10M	EGGS		
STA.	D N	TOTAL MEAS.	MEAN	RANGE	MEAS.		TOTAL MEAS.	MEAN	RANGE	MEAS.				LARVAE	EGGS
A 1 17 06		SAMPLING DEPTH		C-6M		EGGS	SAMPLING DEPTH		C-6M		EGGS	LARVAE	EGGS		
SPECIES ANALYZED															
ENCHELYPELUS CIMBRIUS		15	15	4.2	3.2- 5.7	SL						1.8	0.1		
MELANOGRAMMUS AEGEIFINUS		1	1	4.3		SL						0.1	C.C		
UROPHYCIS CHUSS		2	1	1.4		NL						0.2			
MERLUCCIIUS BILINEARIS		91	54	2.4	1.7- 2.8	NL					206	9.8	25.0		
TAUTOGA DNITIS		3										0.4			
SCOMBER SCOMBRUS		71	62	3.4	2.7- 4.7	SL					2108	8.6	255.5		
LIPARIS ATLANTICUS		18	18	5.2	3.2- 7.2	TL						2.2			
SCOPHTHALMUS AQUOSUS		60	56	3.1	2.3- 5.7	SL						7.3			
GLYPTOCEPHALUS CYNOGLOSSUS		3	2	4.5	4.4- 4.5	SL						0.4			
LIMANDA FERRUGINEA		65	25	4.2	2.5- 7.7	SL						7.9			
PSEUDOPLEURONECTES AMERICANUS		83	25	5.3	4.3- 7.7	SL						10.1			
ADDITIONAL LARVAE CAUGHT															
A 2 17 06		SAMPLING DEPTH		0-15M			SAMPLING DEPTH		18-24M						
ENCHELYPELUS CIMBRIUS		17	17	2.7	1.8- 4.2	SL	16		16		8	5.2	3.6		
UROPHYCIS CHUSS		1	1	1.8		NL					0	0.3			
MERLUCCIIUS BILINEARIS		75	55	2.3	1.8- 3.2	NL	3		3		209	22.7	73.3		
TAUTOGA DNITIS		2	2	1.9	1.2- 2.6	TL						0.6			
TAUTOGOLABRUS ADSPERSUS		1	1	4.4		TL						0.3			
SCOMBER SCOMBRUS		33	32	3.3	2.7- 4.3	SL	24		24		1009	10.0	371.8		
LIPARIS ATLANTICUS		2	2	4.4	4.0- 4.9	TL						0.6			
SCOPHTHALMUS AQUOSUS		4	4	2.9	2.7- 3.3	SL						1.2			
GLYPTOCEPHALUS CYNOGLOSSUS		8	6	4.4	4.0- 4.6	SL	9		9			2.4			
LIMANDA FERRUGINEA		260	29	4.4	2.9- 5.7	SL	665		25			78.8			
PSEUDOPLEURONECTES AMERICANUS		153	25	4.7	3.6- 6.2	SL	15		15			46.4			
ADDITIONAL LARVAE CAUGHT															
A 3 17 06		SAMPLING DEPTH		0-15M			SAMPLING DEPTH		18-24M						
ENCHELYPELUS CIMBRIUS		8	8	3.2	2.5- 3.5	SL	16		16		8	5.0	1.6		
GADUS MORHUA		1	1	4.6		SL					0	0.3	0.0		
UROPHYCIS CHUSS		3	3	1.4	1.2- 1.5	NL						1.0			
MERLUCCIIUS BILINEARIS		49	35	2.2	1.8- 2.6	NL	3		3		209	15.8	69.7		
TAUTOGOLABRUS ADSPERSUS		14	13	3.4	2.6- 4.3	TL	12		11			6.2			
SCOMBER SCOMBRUS		44	40	3.0	2.3- 4.1	SL	24		24		1009	17.4	895.4		
SCOPHTHALMUS AQUOSUS		2	1	2.5		SL						0.6			
GLYPTOCEPHALUS CYNOGLOSSUS		3	3	4.3	3.7- 4.7	SL	9		9			2.4			
LIMANDA FERRUGINEA		415	25	4.6	3.0- 7.8	SL	665		25			234.9			
PSEUDOPLEURONECTES AMERICANUS		25	21	4.3	3.3- 5.4	SL	15		15			10.1			
ADDITIONAL LARVAE CAUGHT															
A 4 17 06		SAMPLING DEPTH		0-15M			SAMPLING DEPTH		18-33M						
ENCHELYPELUS CIMBRIUS		23	21	3.1	1.8- 4.6	SL	18		17		23	12.9	14.6		
GADUS MORHUA							0		1		0	0.3	C.C		
MELANOGRAMMUS AEGEIFINUS							0		3		0	1.0	C.C		
MERLUCCIIUS BILINEARIS		3	3	3.3	3.2- 3.6	NL	16		15		158	6.2	84.8		
TAUTOGOLABRUS ADSPERSUS		19	19	3.6	3.2- 4.7	TL						6.3			
SCOMBER SCOMBRUS		28	27	3.2	2.4- 4.8	SL	17		17		1997	14.1	2064.7		
GLYPTOCEPHALUS CYNOGLOSSUS		10	9	5.6	4.6- 7.4	SL	19		16			9.3			
LIMANDA FERRUGINEA		379	25	4.9	3.2- 7.2	SL	440		25			260.3			
PSEUDOPLEURONECTES AMERICANUS		3	3	4.3	3.8- 4.7	SL	14		13			5.6			
ADDITIONAL LARVAE CAUGHT															
A 5 17 06		SAMPLING DEPTH		0-15M			SAMPLING DEPTH		18-33M						
ENCHELYPELUS CIMBRIUS		267	34	2.9	1.8- 4.4	SL	145		31		107	128.4	76.2		
UROPHYCIS SP.		3	2	2.0	1.8- 2.2	NL						1.0			
UROPHYCIS CHUSS							1		1			0.3			
MERLUCCIIUS BILINEARIS		4	3	2.7	2.2- 3.1	NL	1		1		79	1.5	63.2		
TAUTOGOLABRUS ADSPERSUS							2		2			0.7			
SCOMBER SCOMBRUS		86	64	3.5	2.6- 5.0	SL	31		31		47	26.1	44.5		
GLYPTOCEPHALUS CYNOGLOSSUS		8	6	5.1	3.7- 7.2	SL	25		24			10.7			
LIMANDA FERRUGINEA		278	25	4.3	2.9- 5.3	SL	439		25			229.7			
PSEUDOPLEURONECTES AMERICANUS		1					1		1			0.6			
ADDITIONAL LARVAE CAUGHT															
A 6 17 06		SAMPLING DEPTH		0-15M			SAMPLING DEPTH		18-33M						
ENCHELYPELUS CIMBRIUS		73	38	2.5	1.6- 4.6	SL	316		40		383	127.2	212.5		
MELANOGRAMMUS AEGEIFINUS		1	1	5.6		SL	1		1		0	0.6	0.0		
UROPHYCIS CHUSS		1	1	4.0		NL						0.3			
MERLUCCIIUS BILINEARIS											0	0.0	C.C		
SCOMBER SCOMBRUS		13	13	3.6	2.8- 4.9	SL	2		2		45	4.6	24.0		
GLYPTOCEPHALUS CYNOGLOSSUS		20	17	5.5	3.7- 8.5	SL	24		16			14.0			
LIMANDA FERRUGINEA		640	25	4.8	3.2- 7.2	SL	756		25			444.0			
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED															

TABLE 3. (continued)

CRUISE DATE 066 7 1966 STA. 04 SPECIES ANALYZED A 7 17 06	***** LARVAE *****					***** LARVAE *****					2	
	NUMBER TOTAL MEAS.	LENGTHS (MM) MEAN RANGE MEAS.	NO. EGGS	NO. PER 10M ² LARVAE EGGS		NUMBER TOTAL MEAS.	LENGTHS (MM) MEAN RANGE MEAS.	NO. EGGS	NO. PER 10M ² LARVAE EGGS			
BENTHOSEMA GLACIAE	3	3 6.8 6.1- 7.6 SL				6	6 5.5 8.9-12.1 SL				2.0	
CERATOSCOPELUS MADRENSIS	1	1 11.4 SL				3	3 7.0 6.3- 7.4 SL				1.9	
HYGROMYX HYGROMYX	3	3 4.7 3.9- 5.2 TL				1	1 2.9 TL				0.3	
ENCHELYOPUS CIMBRIUS	5	5 2.9 2.0- 3.8 SL	0			9	8 2.8 2.2- 3.9 SL	1			4.5	0.3
MELANOGRAMMUS AEGEFINUS	1	1 1.4 NL	0			1	1 7.1 SL	0			0.3	0.3
URCHYICUS CHUSS											0.3	
MERLUCCIIUS BILINEARIS			1					0			0.0	0.3
SCOMBER SCOMBRUS	2	2 3.5 3.5- 3.6 SL	21			5	5 3.4 3.0- 4.1 SL	0			2.3	7.0
GLYPTOCEPHALUS CYNOGLOSSUS						2	1 5.1 SL				0.7	
LIMANDA FERRUGINEA	4	1 5.4 SL				13	2 6.2 5.2- 7.1 SL				5.5	
.....												
P 1 19 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
ENCHELYOPUS CIMBRIUS	243	28 2.5 1.7- 6.8 SL	5								73.6	1.5
GADUS MORHUA	2	2 9.0 8.5- 9.4 SL	0								0.6	0.0
URCHYICUS CHUSS	1	1 2.2 NL									0.3	
MERLUCCIIUS BILINEARIS	3	3 2.8 2.5- 3.3 NL	4								0.9	1.2
TAUTOGA ONITIS	36	31 3.6 2.9- 4.7 TL									10.9	
TAUTOGLABRUS ADSPERSUS	609	586 3.3 2.0- 5.7 TL									114.5	
SCOMBER SCOMBRUS	77	61 3.6 2.7- 6.5 SL	77								23.3	23.3
LIPARIS ATLANTICUS	1	1 4.0 TL									0.3	
SCOPHTHALMUS AQUOSUS	13	13 3.1 2.2- 4.3 SL									3.9	
GLYPTOCEPHALUS CYNOGLOSSUS	2										0.6	
LIMANDA FERRUGINEA	27	23 6.3 2.7- 9.2 SL									8.2	
PSEUDOPLEURONectes AMERICANUS	61	25 5.5 4.5- 7.0 SL									18.5	
ADDITIONAL LARVAE CAUGHT BLENNIIDAE												
.....												
P 2 18 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M						
ENCHELYOPUS CIMBRIUS	39	37 2.6 1.5- 5.1 SL	79			4	4 2.9 2.1- 3.4 SL	2			12.6	25.5
GADUS MORHUA			1			1	1 4.6 SL	0			0.2	0.3
MERLUCCIIUS BILINEARIS	18	16 2.6 2.0- 5.3 NL	16					3			5.8	5.4
TAUTOGA ONITIS	52	42 2.7 1.9- 3.9 TL				2	1 2.6 TL				16.8	
TAUTOGLABRUS ADSPERSUS	1100	719 3.0 1.7- 5.5 TL				89	85 3.1 2.0- 4.9 TL				355.5	
SCOMBER SCOMBRUS	894	83 3.7 2.4- 7.2 SL	134			48	42 3.5 2.7- 6.3 SL	11			288.9	43.3
LIPARIS ATLANTICUS	4	3 4.2 3.4- 5.7 TL				10	8 3.5 3.0- 5.0 TL				2.8	
SCOPHTHALMUS AQUOSUS	3	2 2.8 2.7- 2.8 SL									1.0	
GLYPTOCEPHALUS CYNOGLOSSUS	1	1 8.8 SL									0.3	
LIMANDA FERRUGINEA	55	53 6.7 3.4- 9.2 SL				70	25 5.9 4.8- 7.4 SL				28.2	
PSEUDOPLEURONectes AMERICANUS	3	3 5.2 5.1- 5.3 SL				1	1 5.0 SL				1.1	
ADDITIONAL LARVAE CAUGHT BLENNIIDAE												
.....												
P 3 18 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
ENCHELYOPUS CIMBRIUS	20	15 5.8 1.6- 21.7 SL	10			1	1 4.5 SL	0			6.7	3.3
GADUS MORHUA	7	7 6.1 3.4- 7.0 SL	0			1	1 7.2 SL	0			2.4	0.0
MERLUCCIIUS BILINEARIS	15	15 2.9 2.1- 4.4 NL	0			4	4 2.5 2.4- 2.8 NL	0			5.8	0.0
TAUTOGA ONITIS	2	1 2.4 TL									0.7	
TAUTOGLABRUS ADSPERSUS	920	874 3.7 2.2- 6.2 TL				9	9 4.0 3.5- 4.5 TL				366.6	
SCOMBER SCOMBRUS	256	80 4.2 2.6- 8.2 SL	102			12	12 4.8 3.1- 6.9 SL	6			85.3	34.0
LIPARIS INQUILINUS	1	1 4.8 TL				10	7 2.8 2.8- 6.0 TL				3.6	
GLYPTOCEPHALUS CYNOGLOSSUS	18	15 4.8 3.4- 10.2 SL				1	1 7.2 SL				6.0	
LIMANDA FERRUGINEA	129	25 6.5 4.1- 8.2 SL				199	25 5.4 3.9- 7.2 SL				165.0	
ADDITIONAL LARVAE CAUGHT BLENNIIDAE												
.....												
P 4 18 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
ENCHELYOPUS CIMBRIUS	73	32 3.4 1.6- 5.9 SL	13			7	7 3.2 1.9- 4.6 SL	2			24.3	4.6
GADUS MORHUA	2	2 3.6 2.9- 4.2 SL	0					0			0.7	0.0
MERLUCCIIUS BILINEARIS	15	14 3.3 2.8- 4.1 NL	20			6	3 3.6 2.7- 5.0 NL	7			6.5	6.3
TAUTOGLABRUS ADSPERSUS	329	316 3.7 2.3- 5.2 TL				6	6 2.6 3.2- 4.4 TL				109.7	
SCOMBER SCOMBRUS	265	51 4.7 2.9- 8.4 SL	110			11	11 3.5 2.7- 6.6 SL	6			88.3	36.7
LIPARIS INQUILINUS CR ATLANTICUS	1	1 5.2 TL				27	15 4.8 3.9- 6.2 TL				9.3	
GLYPTOCEPHALUS CYNOGLOSSUS	20	14 4.9 3.4- 7.7 SL				4	2 4.6 4.1- 5.0 SL				7.3	
LIMANDA FERRUGINEA	173	25 5.7 3.2- 8.4 SL				283	25 5.1 4.2- 6.2 SL				146.2	
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED												
.....												
P 5 18 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
ENCHELYOPUS CIMBRIUS	147	42 2.5 1.1- 4.6 SL	6			85	32 2.7 1.5- 27.5 SL	72			72.4	25.8
MELANOGRAMMUS AEGEFINUS			0			1	1 9.0 SL	0			0.3	0.0
URCHYICUS CHUSS	1	1 1.3 NL				1	1 1.4 NL				0.6	
MERLUCCIIUS BILINEARIS	120	116 3.3 2.4- 5.7 TL	1			62	56 3.3 2.4- 4.7 TL	64			56.7	21.6
TAUTOGLABRUS ADSPERSUS	63	60 3.5 2.4- 4.7 TL				127	122 3.7 1.5- 5.0 TL				61.2	
SCOMBER SCOMBRUS	331	72 3.3 2.3- 8.7 SL	110			121	43 4.4 2.6- 5.0 SL	137			139.6	76.7
LIPARIS INQUILINUS						1	1 11.0 TL				0.3	
SCOPHTHALMUS AQUOSUS	1	1 3.7 SL									0.3	
GLYPTOCEPHALUS CYNOGLOSSUS	57	54 5.5 3.5- 9.2 SL				61	58 6.8 3.4- 9.6 SL				57.4	
LIMANDA FERRUGINEA	440	50 5.9 3.3- 10.2 SL				612	25 5.3 3.8- 8.1 SL				336.0	

TABLE 3. (continued)

CRUISE DATE	***** LARVAE *****										***** LARVAE *****										NO. PER 10M EGGS		
STA. NO. SPECIES ANALYZED	NUMBER TOTAL MEAS. MEAN SAMPLING DEPTH					LENGTHS (MM) RANGE MEAS.					NO. EGGS	NUMBER TOTAL MEAS. MEAN SAMPLING DEPTH					LENGTHS (MM) RANGE MEAS.					NO. EGGS	
P. 6 19 06	0-15M											18-33M											
ENCHELIOPOUS CIMBRIUS	319	40	3.3	1.5-	4.7 SL	E7	256	31	3.0	1.8-	4.7 SL	97	151.0	58.4									
ENCHELIOPOUS CHLUS	1	1	2.1		NL		1	1	1.4		NL		0.6										
MERLUCCIIUS BILINEARIS	24	24	3.5	2.7-	4.6 NL	0	60	60	3.7	2.9-	4.4 NL	3	27.2	1.0									
TAUTOGOLABRUS AOSPERSUS	50	49	4.1	2.8-	5.5 TL		73	68	3.5	2.8-	5.2 TL		39.3										
SCOMBER SCOMBRUS	121	64	4.2	2.6-	8.2 SL	1	154	60	4.1	2.5-	8.3 SL	0	17.6	0.3									
GLYPTOCEPHALUS CYNOGLOSSUS	63	63	7.4	3.4-	10.4 SL		64	58	6.8	3.4-	9.7 SL		40.2										
LIMANDA FERRUGINEA	342	25	6.2	4.2-	8.5 SL		274	25	5.3	3.2-	8.1 SL		153.9										
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED																							
.....																							
B 7 18 06																							
SAMPLING DEPTH 0-15M										SAMPLING DEPTH 18-33M													
BENTHOSEMA GLACIAE							2	2	5.7	8.4-	11.1 SL		0.7										
CERATOSCOPELUS MAIERENSIS							3	3	5.8	4.8-	7.7 SL		1.0										
CERATOSCOPELUS WARMINGI						411							0.0	137.0									
LOPHIUS AMERICANUS	2	2	4.4	4.4-	4.5 TL		1	1	4.2		TL		0.9										
ENCHELIOPOUS CIMBRIUS	269	40	3.1	1.9-	4.3 SL	12	291	36	3.0	1.7-	4.3 SL	10	177.7	6.5									
MELANOGRAMMUS AEGLEFINUS	2	2	5.1	3.4-	6.5 NL	0	1	1	12.6		SL	0	0.9	0.0									
MERLUCCIIUS BILINEARIS	1	1	3.1		NL	0						1	0.3	0.3									
TAUTOGOLABRUS AOSPERSUS	7	7	4.1	3.5-	4.7 TL		4	4	4.4	4.0-	5.0 TL		3.4										
SCOMBER SCOMBRUS	49	48	3.9	2.6-	7.2 SL	1	21	19	4.5	3.2-	6.3 SL	1	21.7	0.6									
GLYPTOCEPHALUS CYNOGLOSSUS	14	13	9.8	8.1-	11.8 SL		9	9	7.1	4.2-	8.3 SL		7.2										
LIMANDA FERRUGINEA	112	25	6.5	4.1-	10.6 SL		61	25	6.0	4.2-	10.1 SL		53.9										
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED																							
.....																							
C 1 19 06																							
SAMPLING DEPTH 0-15M																							
LOPHIUS AMERICANUS	9	5	5.5	4.3-	10.5 TL								2.7										
ENCHELIOPOUS CIMBRIUS	8	7	4.8	3.3-	8.2 SL	0							2.4	0.0									
MERLUCCIIUS BILINEARIS	8	2	3.6	2.7-	4.5 NL	0							2.4	0.0									
TAUTOGOLABRUS AOSPERSUS	1	1	2.3		TL								0.3										
SCOMBER SCOMBRUS	1	1	3.5		SL	0							0.3	0.0									
LIPARIS INQUILINUS	1	1	9.0		TL								0.3										
LIMANDA FERRUGINEA	2	1	12.6		SL								0.6										
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED																							
.....																							
C 2 19 06																							
SAMPLING DEPTH 0-15M										SAMPLING DEPTH 18-27M													
LOPHIUS AMERICANUS	15	15	4.9	3.0-	10.6 TL								4.9										
ENCHELIOPOUS CIMBRIUS	15	15	8.0	3.0-	36.7 SL	0	10	9	5.1	4.2-	6.7 SL	0	6.8	0.0									
MERLUCCIIUS BILINEARIS						0	1	1	2.9		NL	0	0.2	0.0									
SCOMBER SCOMBRUS	13	13	9.3	6.3-	12.1 SL	4						0	4.3	1.3									
LIMANDA FERRUGINEA	3	2	5.7	5.0-	6.3 SL		43	25	5.2	6.7-	12.2 SL		10.3										
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED																							
.....																							
C 3 19 06																							
SAMPLING DEPTH 0-15M										SAMPLING DEPTH 18-33M													
LOPHIUS AMERICANUS	2	2	3.7	3.2-	4.3 TL								0.7										
ENCHELIOPOUS CIMBRIUS	116	28	8.0	3.4-	31.2 SL	0	25	22	6.1	3.1-	5.2 SL	0	43.1	0.0									
GADUS MORHUA	1					0	3	3	14.7	11.9-	17.4 SL	0	1.3	0.0									
MERLUCCIIUS BILINEARIS	2	2	4.1	4.1-	4.2 NL	0						0	0.7	0.0									
TAUTOGOLABRUS AOSPERSUS	13	13	4.3	3.5-	5.2 TL								4.3										
SCOMBER SCOMBRUS	195	151	6.8	4.1-	13.0 SL	2	2	2	5.5	5.4-	6.5 SL	0	65.0	0.7									
SCOPHTHALMUS AQUOSUS	4	4	4.9	3.7-	6.1 SL								1.3										
GLYPTOCEPHALUS CYNOGLOSSUS	8	7	8.5	4.8-	13.7 SL		5	4	12.2	10.4-	13.7 SL		4.1										
LIMANDA FERRUGINEA	57	25	9.8	5.5-	14.6 SL		121	25	10.8	7.6-	13.7 SL		57.4										
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED																							
.....																							
C 4 19 06																							
SAMPLING DEPTH 0-15M										SAMPLING DEPTH 18-24M													
LOPHIUS AMERICANUS	6	6	4.7	3.8-	6.6 TL								1.9										
ENCHELIOPOUS CIMBRIUS	4	4	16.5	4.7-	21.7 SL	0						0	1.3	0.0									
GADUS MORHUA	5	5	12.9	6.5-	19.2 SL	0	1	1	14.4		SL	0	1.7	0.0									
SCOMBER SCOMBRUS	6	6	13.3	12.0-	14.6 SL	0						0	1.9	0.0									
GLYPTOCEPHALUS CYNOGLOSSUS	2	2	13.7	9.6-	17.7 SL		6	5	5.0	6.6-	10.7 SL		1.6										
LIMANDA FERRUGINEA	75	25	12.3	5.8-	16.8 SL		100	25	11.6	5.9-	15.2 SL		39.2										
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED																							
.....																							
C 5 19 06																							
SAMPLING DEPTH 0-15M										SAMPLING DEPTH 18-33M													
LOPHIUS AMERICANUS	4	4	9.4	4.6-	11.8 TL		1	1	11.0		TL		1.5										
ENCHELIOPOUS CIMBRIUS	2	2	12.5	2.8-	22.2 SL	0	11	11	6.2	3.3-	15.1 SL	0	4.3	0.0									
GADUS MORHUA	1	1	17.2		SL	0	2	2	12.3	8.4-	16.1 SL	0	1.0	0.0									
SCOMBER SCOMBRUS	27	27	13.0	6.5-	18.9 SL	0	1	1	7.1		SL	0	9.0	0.0									
LIPARIS INQUILINUS							1	1	4.0		TL		0.3										
GLYPTOCEPHALUS CYNOGLOSSUS	4	4	10.9	8.7-	14.2 SL		19	19	10.4	6.7-	17.1 SL		7.5										
LIMANDA FERRUGINEA	148	25	12.0	5.6-	19.6 SL		326	25	10.4	4.7-	15.4 SL		153.1										

TABLE 3. (continued)

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CRUISE DATE			***** LARVAE *****				***** LARVAE *****				2	
D66 7 1966			NUMBER LENGTHS (MM) NO.				NUMBER LENGTHS (MM) NO.				NO. PER 10 ⁴	
STA. D M SPECIES ANALYZED			TOTAL MEAS. MEAN RANGE MEAS. EGGS				TOTAL MEAS. MEAN RANGE MEAS. EGGS				LARVAE	
C 6 19 06			SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
BENTHOSEMA GLACIAE			3	2	6.6	6.5- 6.7 SL					1.0	
LEPIDIUS AMERICANUS			1	1	5.8	TL					0.3	
EUCALYPTUS CIMBRICUS			21	21	9.7	3.7-25.8 SL	0	36	36	5.0	2.6-12.6 SL	0.0
GADUS MORHUA							0	2	2	10.3	9.2-11.3 SL	C.C
MERLUCCIIUS BILINEARIS			1	1	5.2	NL	0	5	5	5.7	5.1- 6.3 NL	0.0
TAUTOGALAPUS ADSPERSUS								1	1	5.0	TL	0.3
SCOMBER SCOMBERUS			29	28	11.2	5.1-18.0 SL	0	3	3	6.2	4.2- 8.3 SL	0.0
SCOPHTHALMUS AQUOSUS								1				0.3
GLYPTOCEPHALUS CYNOGLOSSUS			3	3	5.5	4.3- 6.6 SL		23	23	7.4	4.6-19.7 SL	8.6
LIMANDA FERRUGINEA			99	25	11.9	4.2-17.8 SL		363	25	7.4	3.9-16.0 SL	147.7
ADDITIONAL LARVAE CAUGHT							UNIDENTIFIED					
C 7 19 06			SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
BENTHOSEMA GLACIAE			15	15	6.5	5.0- 7.5 SL		1	1	4.9	SL	5.0
EUCALYPTUS CIMBRICUS			16	16	7.0	2.2-23.3 SL	0	1	1	6.4	SL	0.0
GADUS MORHUA			1	1	8.4	SL	0					C.C
MERLUCCIIUS BILINEARIS			4	3	6.3	5.8- 6.9 NL	0					0.0
SCOMBER SCOMBERUS			26	26	9.8	3.9-17.6 SL	0	2	2	10.8	5.2-16.5 SL	0.0
GLYPTOCEPHALUS CYNOGLOSSUS			5	5	11.9	8.0-19.9 SL		3	1	17.0	SL	2.5
LIMANDA FERRUGINEA			242	25	9.4	4.9-18.7 SL		37	25	10.6	4.4-17.8 SL	64.9
ADDITIONAL LARVAE CAUGHT							MYCTOPHIDAE					
C 8 19 06			SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
LEPIDIUS AMERICANUS			1	1	6.1	TL		1	1	5.3	TL	0.6
EUCALYPTUS CIMBRICUS							1	1	6.6	SL	1	0.3
MERLUCCIIUS BILINEARIS			2	2	4.5	4.7- 5.1 NL	4					0.6
SCOMBER SCOMBERUS			71	71	5.8	4.5-13.4 SL	0					1.5
GLYPTOCEPHALUS CYNOGLOSSUS			1	1	12.0	SL		1	1	12.5	SL	0.0
LIMANDA FERRUGINEA			10	10	9.1	5.5-13.2 SL		6	6	6.3	4.9- 8.4 SL	0.6
ADDITIONAL LARVAE CAUGHT							UNIDENTIFIED					
C 1 20 06			SAMPLING DEPTH 0-6M									
LEPIDIUS AMERICANUS			2	2	5.3	5.3- 5.3 TL						0.2
EUCALYPTUS CIMBRICUS			15	14	3.1	1.5- 7.1 SL	0					1.8
TAUTOGALAPUS ADSPERSUS			4	3	2.0	1.9- 2.1 TL						0.5
SCOPHTHALMUS AQUOSUS			8	8	2.8	2.1- 4.1 SL						1.0
ADDITIONAL LARVAE CAUGHT							SYNGNATHIDAE					

TABLE 3. (continued)

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CRUISE DATE 066 7 1966 STA. 04 C 6 20 06	***** LARVAE *****					***** LARVAE *****					2	
	NUMBER	LENGTHS (MM)	NO.	NO.	EGGS	NUMBER	LENGTHS (MM)	NO.	NO.	PER 10M		
SPECIES ANALYZED	TOTAL MEAS.	MEAN RANGE	MEAS.	EGGS		TOTAL MEAS.	MEAN RANGE	MEAS.	EGGS	LAFFVE	EGGS	
SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-33M						
LOPHIUS AMERICANUS	1	1 10.0	TL							0.3		
ENCHELYPELUS CIMBRIUS	4	4 23.4 17.0-28.7	SL	0		9	9 15.9 15.7-24.3	SL	0	4.2	0.0	
UROPHYCIS SP.						1	1 20.2	NL		0.3		
SCOMBER SCOMBRUS	39	39 16.9 12.9-27.0	SL	0		5	5 16.7 12.0-25.7	SL	0	13.4	0.0	
GLYPTOCEPHALUS CYNOGLOSSUS	1	1 10.0	SL			8	6 7.2 5.1-9.0	SL		3.0		
LIMANDA FERRUGINEA	52	25 15.3 7.2-17.4	SL			481	25 13.4 5.0-17.3	SL		175.9		
.....												
D 7 20 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
BENTHOSEMA GLACIALE	1	1 9.2	SL							0.3		
LOPHIUS AMERICANUS	2	2 7.6 5.3-10.0	TL							0.7		
ENCHELYPELUS CIMBRIUS	3	3 20.3 17.3-22.1	SL	0		11	11 16.0 8.1-26.8	SL	0	4.6	0.0	
GADUS MORHUA				0		1	1 11.6	SL	0	0.3	0.0	
SCOMBER SCOMBRUS	24	24 17.9 12.9-21.5	SL	0		30	30 18.8 7.8-22.3	SL	0	17.2	0.0	
LIMANDA FERRUGINEA	9	8 17.8 16.1-19.6	SL			29	29 12.2 4.6-20.7	SL		12.4		
.....												
D 8 20 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
BENTHOSEMA GLACIALE	40	16 8.0 6.2-9.4	SL			18	9 7.6 5.5-10.6	SL		18.0		
CERATOSCOPUS MADEFENSIS	12	12 5.3 2.2-6.3	SL							4.0		
LOPHIUS AMERICANUS	14	14 5.5 4.3-9.0	TL							4.7		
ENCHELYPELUS CIMBRIUS	6	5 3.2 2.7-3.7	SL	0					0	2.0	0.0	
SCOMBER SCOMBRUS	6	6 8.5 4.7-13.1	SL	0					0	2.0	0.0	
LIMANDA FERRUGINEA	3	3 10.2 9.8-10.6	SL							1.0		
.....												
F 1 29 06	SAMPLING DEPTH 0-3M											
BREVORTIA TYRANNUS	1	1 13.7	TL							0.1		
ANCHOA HEPSETUS	13	12 7.7 4.5-13.7	TL							0.8		
TAUTOGA ONITIS	2	2 5.7 4.8-6.6	TL							0.1		
.....												
F 2 29 06	SAMPLING DEPTH 0-6M											
ENCHELYPELUS CIMBRIUS	1	1 7.2	SL	0						0.1	0.0	
TAUTOGOLABRUS ADSPERSUS	1	1 3.9	TL							0.1		
PEICNOTUS CAROLINUS	2	2 3.4 3.3-3.5	SL							0.2		
SCOPHTHALMUS AQUOSUS	1	1 5.4	SL							0.1		
.....												
F 3 29 06	SAMPLING DEPTH 0-6M											
ENCHELYPELUS CIMBRIUS	1	1 27.5	SL	0						0.1	0.0	
TAUTOGA ONITIS	1	1 4.3	TL							0.1		
TAUTOGOLABRUS ADSPERSUS	1	1 4.8	TL							0.1		
PEICNOTUS CAROLINUS	1	1 5.1	SL							0.1		
.....												
F 4 29 06	SAMPLING DEPTH 0-15M											
LOPHIUS AMERICANUS	1	1 27.0	TL							0.3		
ENCHELYPELUS CIMBRIUS	5	5 30.7 27.4-37.1	SL	0						1.5	0.0	
SCOMBER SCOMBRUS	1	1 33.0	SL	0						0.3	0.0	
GLYPTOCEPHALUS CYNOGLOSSUS	1	1 7.3	SL							0.3		
.....												
E 5 29 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
LOPHIUS AMERICANUS	1	1 31.0	TL							0.3		
ENCHELYPELUS CIMBRIUS	4	4 12.6 9.5-16.7	SL	0		3	3 31.5 26.7-40.2	SL	0	2.2	0.0	
GADUS MORHUA				0		1	1 17.6	SL	0	0.3	0.0	
GLYPTOCEPHALUS CYNOGLOSSUS						2	2 7.8 6.6-8.9	SL		0.7		
LIMANDA FERRUGINEA	85	25 10.7 6.0-16.1	SL			88	25 8.4 4.9-15.4	SL		54.8		
.....												
E 6 29 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
LOPHIUS AMERICANUS	2	2 18.5 14.0-23.0	TL							0.7		
ENCHELYPELUS CIMBRIUS	10	10 19.5 9.6-36.8	SL	0					0	3.3	0.0	
SCOMBER SCOMBRUS	18	18 38.8 33.4-49.7	SL	0					0	6.0	0.0	
GLYPTOCEPHALUS CYNOGLOSSUS	2	2 12.8 10.6-15.0	SL			4	4 11.0 6.6-14.6	SL		1.9		
LIMANDA FERRUGINEA	185	25 11.9 8.2-19.3	SL			229	25 8.3 5.1-12.7	SL		131.8		
.....												
F 7 28 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
MYCTOPHIDAE						4	4 8.1 6.6-9.1	SL		1.3		
LOPHIUS AMERICANUS	1	1 17.0	TL							0.3		
SCOMBER SCOMBRUS	1	1 30.0	SL	0					0	0.3	0.0	
GLYPTOCEPHALUS CYNOGLOSSUS	3	3 20.1 14.8-26.7	SL			4	4 24.3 15.2-29.4	SL		2.2		
LIMANDA FERRUGINEA	184	25 12.7 10.2-17.2	SL			123	25 11.2 7.3-17.5	SL		96.2		
.....												
F 8 28 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
BENTHOSEMA GLACIALE	8	8 7.9 7.0-8.7	SL			3	3 7.3 6.4-8.1	SL		3.4		
CERATOSCOPUS MADEFENSIS	20	20 5.5 4.3-6.5	SL							6.7		
SCOMBER SCOMBRUS	4	4 30.0 27.4-32.1	SL	0		1	1 25.1	SL	0	1.5	0.0	
LIMANDA FERRUGINEA	1	1 12.4	SL			1				0.6		
.....												
ADDITIONAL LARVAE CAUGHT						CENGRIDAE						

TABLE 3. (continued)

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CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2	
026 7 1966	STA. 0 M	SPECIES ANALYZED	NUMBER	LENGTHS (MM)	NO.		NUMBER	LENGTHS (MM)	NO.		NO. PER 10 ²		
F 1	28 06		TOTAL MEAS.	MEAN	RANGE	MEAS.	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	LARVAE	
			SAMPLING DEPTH	0- 6M									
		BREVOORTIA TYRANNUS	11	11	9.5	7.8-14.4 TL						1.3	
		ANCHOA MITCHILLI	976	115	6.6	3.7-12.2 TL						118.3	
		CYNOSCION SP.	44	42	3.1	2.2- 4.6 SL						5.3	
		MENTICARRHUS SP.	1	1	3.2	SL						0.1	
		PRICNOTUS CARLINIUS	1	1	5.0	SL						0.1	
		SCOPHTHALMUS AQUOSUS	3	3	3.9	2.7- 5.1 SL						0.4	
		ADDITIONAL LARVAE CAUGHT	SYNGNATHIDAE										
			TETRAODONTIDAE										
.....													
F 2	28 06		SAMPLING DEPTH	0- 6M									
		BREVOORTIA TYRANNUS	2	2	8.0	8.0- 8.1 TL						0.2	
		ANCHOA MITCHILLI	333	63	4.5	2.5- 9.3 TL						40.4	
		CYNOSCION SP.	25	25	2.9	2.5- 4.0 SL						3.0	
		MENTICARRHUS SP.	2	1	2.1	SL						0.2	
		TAUTOGA ONITIS	2	2	3.2	2.9- 3.6 TL						0.2	
		TAUTOGLABRUS AOSPERSUS	3	3	3.1	2.9- 3.5 TL						0.4	
		PRICNOTUS CARLINIUS	3	3	3.3	3.0- 3.5 SL						0.4	
		HIPPUGLOSSINA OBLONGUS	1	1	3.2	SL						0.1	
		SCOPHTHALMUS AQUOSUS	1	1	3.4	SL						0.1	
		ADDITIONAL LARVAE CAUGHT	CPHIDIIDAE										
			ATHERINIDAE										
			TETRAODONTIDAE										
			UNIDENTIFIED										
.....													
F 3	28 06		SAMPLING DEPTH	0-15M									
		ANCHOA HERSETUS	28	22	4.9	2.8- 7.8 TL						8.5	
		ANCHOA MITCHILLI	27	22	4.9	2.8- 7.8 TL						8.2	
		MYCTOPHIDAE	5	4	2.3	2.1- 2.5 SL						1.5	
		UROPHYCIS CHUSS	2	2	2.5	1.3- 3.7 NL						0.6	
		CYNOSCION SP.	2	2	2.4	2.2- 2.6 SL						0.6	
		TAUTOGA ONITIS	1	1	2.7	TL						0.3	
		PRICNOTUS CARLINIUS	6	6	2.6	2.1- 3.1 SL						1.8	
		SCOPHTHALMUS AQUOSUS	11	10	3.2	2.2- 5.8 SL						3.3	
		GLYPTOCEPHALLUS CYNOCLOSSUS	1	1	10.3	SL						0.3	
		ADDITIONAL LARVAE CAUGHT	TETRAODONTIDAE										
			UNIDENTIFIED										
.....													
F 4	28 06		SAMPLING DEPTH	0-15M									
		LECFIUS AMERICANUS	4	4	4.1	3.8- 4.8 TL						1.2	
		ENCYCLYOPUS CIMBRIUS	1	1	42.4	SL	0					0.3	
		UROPHYCIS CHUSS	5	5	2.1	1.4- 3.2 NL						1.5	
		TAUTOGA ONITIS	1	1	3.1	TL						0.3	
		TAUTOGLABRUS AOSPERSUS	5	5	4.1	3.1- 5.4 TL						1.5	
		HIPPUGLOSSINA OBLONGUS	1	1	4.2	SL						0.3	
		LIMANDA FERRUGINEA	1	1	5.7	SL						0.3	
		ADDITIONAL LARVAE CAUGHT	STROMATEIDAE										
			UNIDENTIFIED										
.....													
F 5	28 06		SAMPLING DEPTH	0-15M			SAMPLING DEPTH	18-33M					
		ENCYCLYOPUS CIMBRIUS					1	1	32.0	SL	0	0.3	
		TAUTOGLABRUS AOSPERSUS	2	2	3.6	3.5- 3.8 TL						0.7	
		LIPARIS INQUILINUS					2	2	5.8	5.7-10.0 TL		0.7	
		GLYPTOCEPHALLUS CYNOCLOSSUS					5	5	12.8	9.7-17.6 SL		1.7	
		LIMANDA FERRUGINEA					121	25	8.9	6.5-14.1 SL		40.3	
.....													
F 6	28 06		SAMPLING DEPTH	0-15M			SAMPLING DEPTH	18-33M					
		MYLANOGRAMMUS AEGAEFINUS					1	1	22.8	SL	0	0.3	
		LIMANDA FERRUGINEA					1	1	8.7	SL		0.3	
.....													
F 7	28 06		SAMPLING DEPTH	0-15M			SAMPLING DEPTH	18-33M					
		MYCTOPHIDAE					1	1	8.6	SL		0.3	
		CERATOSCOPUS MADEREENSIS	2	2	6.3	5.7- 7.0 SL						0.7	
		LOPHIUS AMERICANUS					1	1	10.3	TL		0.3	
		UROPHYCIS CHUSS	9	5	1.8	1.2- 3.6 NL						3.0	
		TAUTOGLABRUS AOSPERSUS	1	1	7.0	TL						0.3	
		GLYPTOCEPHALLUS CYNOCLOSSUS					1	1	23.7	SL		0.3	
		LIMANDA FERRUGINEA	1	1	8.2	SL	19	19	9.8	5.7-13.2 SL		6.6	
.....													
F 1	28 06		SAMPLING DEPTH	0- 3M									
		ANCHOA MITCHILLI	3	3	5.5	2.9- 7.7 TL						0.2	
		CYNOSCION SP.	7	6	3.7	2.9- 4.4 SL						0.4	
		ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED										

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CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2			
STA.	D M	SPECIES ANALYZED	NUMBER	LENGTHS (MM)	NO.	NUMBER	LENGTHS (MM)	NO.	NO. PER 10M						
			TOTAL MEAS.	MEAN	RANGE	MEAS.	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS				
C 2	28 06		SAMPLING DEPTH	C- 6M											
		TAUTOGA ONITIS	4	3	2.8- 3.8	TL					0.5				
		CITHARICHTHYS ARCTIFRONS	18	15	2.3	2.0- 2.5	SL				2.2				
		HIPPOGLOSSINA OBLONGUS	2	1	3.3	SL					0.2				
		SCORPHTHALMUS AQUOSUS	4	1	2.7	SL					0.5				
		ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED												
.....															
C 3	28 06		SAMPLING DEPTH	C- 6M											
		LEPHTIUS AMERICANUS	1	1	3.6	TL					0.1				
		TAUTOGA ONITIS	1	1	2.8	TL					0.1				
		ETROPLUS MICROSTOMUS	1	1	2.0	SL					0.1				
		SCORPHTHALMUS AQUOSUS	1	1	2.3	SL					0.1				
		ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED												
.....															
C 4	28 06		SAMPLING DEPTH	C-15M											
		LEPHTIUS AMERICANUS	1	1	14.0	TL					0.3				
		SCORPHTHALMUS AQUOSUS	26	26	34.5	28.3-44.1	SL	0			7.9				
		LIMANDA FERRUGINEA	15	15	10.5	7.6-14.4	SL				4.5				
.....															
C 5	27 06		SAMPLING DEPTH	C-15M			SAMPLING DEPTH	18-33M							
		PENTHOSEMA GLACIAE	1	1	7.6	SL	3	3	4.8	4.1- 5.4	SL	1.3			
		LEPHTIUS AMERICANUS	5	4	22.9	13.9-30.0	TL				1.7				
		MACRILUS CILIATUS	2	2	28.1	27.6-28.5	SL	0	2	2	39.3	36.5-42.0	SL	0	1.3
		GADUS MORHUA	0	1	11.3	SL	0	1	11.3	SL	0	0.3			
		SCORPHTHALMUS AQUOSUS	4	4	36.2	33.9-38.6	SL	0			0	1.3			
		GLYPTOCEPHALUS CYCLOGLOSSUS	1	1	17.5	SL					0	0.3			
		LIMANDA FERRUGINEA	105	25	12.1	7.8-15.1	SL	59	25	12.1	5.8-17.6	SL	51.2		
.....															
G 6	27 06		SAMPLING DEPTH	0-15M			SAMPLING DEPTH	18-33M							
		PENTHOSEMA GLACIAE	13	13	5.5	4.9- 6.9	SL				4.3				
		CERATOSCOPELUS MADAGASCARIENSIS	3	3	7.6	5.4- 8.5	SL				1.0				
		LEPHTIUS AMERICANUS	3	3	8.0	4.4- 9.9	TL				1.0				
		SARCA SARCA					1				0.0				
		LIMANDA FERRUGINEA	8	8	10.1	7.7-13.2	SL	6	6	5.5	8.7-11.4	SL	4.4		
.....															
H 1	27 06		SAMPLING DEPTH	0- 3M											
		ANCHORA MITCHILLI	1915	148	4.4	1.7- 6.9	TL				116.0				
		CYNOSCION SP.	2	2	2.7	2.1- 3.4	SL				0.1				
		TAUTOGA ONITIS	1	1	3.5	TL					0.1				
		SARCA SARCA					3				0.0				
		PERILUS TRIACANTHUS	1	1	12.3	SL					0.1				
		PRIONOTUS CARLINUS	2	2	4.4	4.4- 4.4	SL				0.1				
		ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED												
.....															
F 2	27 06		SAMPLING DEPTH	C- 6M											
		ANCHORA MITCHILLI	514	56	5.0	2.8- 7.1	TL				62.3				
		CENTROPOMUS STRIATA	1	1	4.6	SL					0.1				
		CYNOSCION SP.	2	2	3.0	3.0- 3.0	SL				0.2				
		MENTHICIRRHUS SP.	19	18	2.6	2.1- 3.2	SL				2.3				
		TAUTOGA ONITIS	19	16	4.1	2.5- 6.3	TL				2.3				
		SARCA SARCA	4	4	4.0	3.6- 4.6	SL	0			0.5				
		PERILUS TRIACANTHUS	59	59	3.0	2.2- 8.5	SL				7.2				
		PRIONOTUS CARLINUS	19	19	4.2	3.1- 6.1	SL				2.3				
		ETROPLUS MICROSTOMUS	38	34	2.7	2.0- 4.3	SL				4.6				
		HIPPOGLOSSINA OBLONGUS	13	12	3.6	2.5- 4.7	SL				1.6				
		ADDITIONAL LARVAE CAUGHT	SYNGNATHIDAE URANOSCOPIDAE BLENNIIDAE STROMATEIDAE UNIDENTIFIED												
.....															
H 3	27 06		SAMPLING DEPTH	0- 6M											
		ANCHORA MITCHILLI	65	61	4.4	1.4- 6.3	TL				7.9				
		CYNOSCION SP.	1	1	3.2	SL					0.1				
		MENTHICIRRHUS SP.	11	11	2.7	2.3- 3.1	SL				1.3				
		TAUTOGA ONITIS	1	1	5.0	TL					0.1				
		PRIONOTUS CARLINUS	2	2	3.9	3.3- 4.5	SL				0.2				
		ETROPLUS MICROSTOMUS	3	3	3.1	3.0- 3.2	SL				0.4				
		HIPPOGLOSSINA OBLONGUS	13	13	3.4	2.7- 5.5	SL				1.6				
		ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED												

TABLE 3. (continued)

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CRUISE DATE STA. NO. SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. EGGS	NO. PER 10M ²	
	NUMBER	LENGTHS (MM)	RANGE	MEAS.		NUMBER	LENGTHS (MM)	RANGE	MEAS.		LARVAE	EGGS
H 4 27 06	SAMPLING DEPTH C-15M					SAMPLING DEPTH 18-24M						
UPOMPHYCIS CHLUS	2	1	3.1	NL							0.6	
MENTICIRRHUS SP.	1	1	2.2	SL							0.3	
TAUTOGA ONITIS	1	1	4.4	TL							0.3	
PRIONOTUS CARLINIUS	5	5	2.6	1.8- 3.9 SL							1.6	
ETREPIUS MICROSTOMUS	3	3	3.1	2.5- 3.7 SL							1.0	
HIPPOGLOSSINA OBLIQUUS	1	1	3.4	SL							0.3	
LIMANDA FERRUGINEA						3	3	7.1	6.4- 7.5 SL		0.5	
ADDITIONAL LARVAE CAUGHT	STROMATEICAE UNIDENTIFIED											
H 5 27 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M						
LOPHIUS AMERICANUS	1	1	3.1	SL		1	1	31.5	TL		0.3	
PRIONOTUS CARLINIUS											0.3	
LIMANDA FERRUGINEA						8	8	8.9	6.4-10.1 SL		2.7	
ADDITIONAL LARVAE CAUGHT	MYCTOPHICAE UNIDENTIFIED											
H 6 27 06	SAMPLING DEPTH C-15M					SAMPLING DEPTH 18-33M						
BENTHOSEMA GLACIAE F	1	1	4.5	TL		7	6	6.5	6.0- 7.4 SL		2.3	
LOPHIUS AMERICANUS					0	1	1	7.7	SL	0	0.3	C.C
EACHELYCOPUS CIMBRIUS	1	1	6.3	NL	0					0	0.3	C.C
MERLUCCIIUS BILINEARIS	1	1	15.5	SL	0					0	0.3	C.C
SCOMBER COMBRIUS	10	10	8.0	4.4-10.2 SL		17	17	7.5	6.1-10.6 SL		8.7	
LIMANDA FERRUGINEA												
ADDITIONAL LARVAE CAUGHT	MYCTOPHICAE UNIDENTIFIED											
H 7 27 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
MYCTOPHICAE	1	1	10.5	SL		3	3	6.1	5.5- 7.4 SL		1.0	
BENTHOSEMA GLACIAE	1	1	1.4	NL		3	3	6.3	7.8- 9.2 SL		1.3	
UPOMPHYCIS CHLUS					0					1	0.0	C.3
MERLUCCIIUS BILINEARIS												
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED											
J 1 26 06	SAMPLING DEPTH C-6M											
ANCHOA MITCHILLI	247	57	4.9	2.8- 7.0 TL							29.9	
ADDITIONAL LARVAE CAUGHT	SYNGNATHICAE											
J 2 26 06	SAMPLING DEPTH 0-6M											
ANCHOA MITCHILLI	1279	243	3.5	1.5- 6.8 TL							155.0	
CYNOCEION SP.	6	6	2.8	2.5- 3.1 SL							0.7	
PRIONOTUS CARLINIUS	4	4	2.9	2.1- 4.0 SL							0.5	
CITHARICHTHYS ARCTIFRONS	4	4	2.1	1.8- 2.2 SL							0.5	
ETREPIUS MICROSTOMUS	1	1	2.7	SL							0.1	
HIPPOGLOSSINA OBLIQUUS	2	2	3.5	2.5- 4.4 SL							0.2	
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED											
J 3 26 06	SAMPLING DEPTH C-6M											
ANCHOA MITCHILLI	122	30	3.2	1.5- 5.5 TL							14.8	
MENTICIRRHUS SP.	3	3	2.9	2.7- 3.2 SL							0.4	
SARCA SARDA					9						0.0	1.1
PRIONOTUS CARLINIUS	3	2	2.7	2.7- 2.8 SL							0.4	
HIPPOGLOSSINA OBLIQUUS	2	2	2.6	2.5- 2.6 SL							0.2	
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED											
J 4 26 06	SAMPLING DEPTH C-6M											
ANCHOA MITCHILLI	57	53	4.1	1.6- 5.8 TL							6.9	
UPOMPHYCIS CHLUS	4	4	2.3	2.0- 2.6 NL							0.5	
MENTICIRRHUS SP.	5	3	2.2	1.9- 2.4 SL							0.6	
TAUTOGA ONITIS	12	11	2.9	2.3- 3.7 TL							1.5	
SARCA SARDA	4	3	3.5	3.3- 3.8 SL							0.5	C.5
PEREPIUS TRIACANTHUS	6	6	3.0	2.1- 3.7 SL		4					0.7	
PRIONOTUS CARLINIUS	316	22	2.5	2.1- 2.9 SL							38.3	
ETREPIUS MICROSTOMUS	41	39	3.1	2.2- 4.6 SL							5.0	
HIPPOGLOSSINA OBLIQUUS	35	33	3.2	2.1- 4.8 SL							4.2	
ADDITIONAL LARVAE CAUGHT	LRANOSCEICAE STROMATEICAE UNIDENTIFIED											
J 5 26 06	SAMPLING DEPTH C-15M											
MENTICIRRHUS SP.	1	1	2.3	SL							0.3	
TAUTOGA ONITIS	3	3	3.1	2.4- 3.9 TL							0.9	
PEREPIUS TRIACANTHUS	5	5	7.6	2.1-26.4 SL							1.5	
ETREPIUS MICROSTOMUS	5	4	3.8	3.4- 4.2 SL							1.5	
HIPPOGLOSSINA OBLIQUUS	1										0.3	
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED											

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CRUISE DATE	***** LARVAE *****	***** LARVAE *****	2
NO. 7 1966	NUMBER LENGTHS (MM) NO.	NUMBER LENGTHS (MM) NO.	
STA. 04 SPECIES ANALYZED	TOTAL MEAS. MEAN RANGE MEAS. EGGS	TOTAL MEAS. MEAN RANGE MEAS. EGGS	PO. PER 10M LARVAE
J 6 27 06	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 18-24M	EGGS
ANCHOA MITCHILLI			0.2
PENTHOSEMA GLACIALE	7 7 6.6 6.1- 7.2 SL	1 1 4.7 TL	2.7
LOPHIUS AMERICANUS	1 1 10.0 TL	3 3 7.5 6.1- 9.7 SL	0.3
ENCHELYOPUS CIMBRIUS			0.3
UROPHYCIS CHLUS	5 4 2.9 2.5- 3.2 NL	2 2 11.0 4.6-17.4 SL	1.6
LIMANDA FERRUGINFA		4 4 11.7 9.1-14.2 SL	0.6
J 7 27 06	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 18-33M	
PENTHOSEMA GLACIALE	6 6 6.7 6.4- 7.6 SL		2.0
LOPHIUS AMERICANUS	1 1 19.0 TL		0.3
PRIONITUS CAROLINUS	1 1 3.1 SL		0.3
LIPARIS INQUILINUS		1 1 10.8 TL	0.3
GLYPTOCEPHALUS CYNOCLOSSUS	3 2 12.1 8.7-15.5 SL		1.0
LIMANDA FERRUGINFA	56 25 10.4 7.5-13.3 SL	9 9 9.9 8.2-12.1 SL	19.8
K 1 26 06	SAMPLING DEPTH 0- 6M		
SARCA SARCA		16	0.0 1.9
K 2 26 06	SAMPLING DEPTH 0-15M		
ANCHOA MITCHILLI	29 29 3.3 1.5- 6.8 TL		8.8
SARCA SARCA		8	0.0 2.4
ETREPOS MICROSTOMUS	1 1 2.0 SL		0.3
HIPPOGLOSSINA OBLIANGUS	1		0.3
ADDITIONAL LARVAE CAUGHT	URANOSCOPICAE UNIDENTIFIED		
K 3 26 06	SAMPLING DEPTH 0-15M		
ANCHOA MITCHILLI	14 11 5.6 2.5- 8.1 TL		4.2
SARCA SARCA	1 1 3.3 SL	0	0.3
ETREPOS MICROSTOMUS	1 1 2.3 SL		0.3
HIPPOGLOSSINA OBLIANGUS	2 1 2.6 SL		0.6
ADDITIONAL LARVAE CAUGHT	GOBIIDAE UNIDENTIFIED		
K 4 26 06	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 18-24M	
LOPHIUS AMERICANUS	2 2 4.3 4.3- 4.3 TL		0.6
UROPHYCIS CHLUS	1 1 1.9 NL		0.3
TAUTOGA ONITIS	5 5 4.1 3.6- 4.7 TL		1.6
PERILUS TRIACANTHUS	19 19 4.9 2.6-15.0 SL	4 4 11.6 5.8-17.5 SL	6.5
PRIONITUS CAROLINUS	3 3 3.4 2.8- 4.0 SL		1.0
ACTIUS PCELLATUS		1 1 4.6 SL	0.2
ETREPOS MICROSTOMUS	24 22 3.3 2.4- 4.3 SL		7.8
HIPPOGLOSSINA OBLIANGUS	10 10 4.5 2.7- 6.9 SL	1	3.2
GLYPTOCEPHALUS CYNOCLOSSUS	1 1 20.2 SL		0.3
LIMANDA FERRUGINFA		1 1 14.6 SL	6.2
ADDITIONAL LARVAE CAUGHT	URANOSCOPICAE GOBIIDAE STROMATEIDAE UNIDENTIFIED	SYNODONTICAE	
K 5 25 06	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 18-24M	
LOPHIUS AMERICANUS	2 2 15.2 14.0-16.5 TL		0.6
ENCHELYOPUS CIMBRIUS		1 1 41.0 SL	0.2
TAUTOGOLABRUS ADSPERSUS	1 1 4.3 TL		0.3
SCOMBER COMBRUS	1 1 29.1 SL	2 2 27.0 25.7-28.3 SL	0.6
PERILUS TRIACANTHUS	3 3 6.9 5.8- 9.0 SL	1 1 4.4 SL	1.1
GLYPTOCEPHALUS CYNOCLOSSUS	1 1 11.0 SL	1 1 42.7 SL	0.5
LIMANDA FERRUGINFA	1 1 14.1 SL	1 1 10.0 SL	0.5
K 6 25 06	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 18-33M	
PENTHOSEMA GLACIALE	5 4 7.6 6.7- 8.2 SL	1 1 7.1 SL	1.8
LOPHIUS AMERICANUS	2 2 5.8 4.7- 6.9 TL	1 1 4.6 TL	0.9
ENCHELYOPUS CIMBRIUS		1 1 4.9 SL	0.3
UROPHYCIS CHLUS	6 4 3.0 2.1- 3.9 NL		2.0
MERLUCCJUS BILINEARIS	1 1 7.8 NL		0.3
TALOGOLABRUS ADSPERSUS	1 1 6.2 TL		0.3
LIMANDA FERRUGINFA	20 20 10.3 8.5-13.6 SL	34 25 10.2 6.5-15.1 SL	17.3
ADDITIONAL LARVAE CAUGHT		CYCLOTRONE SP. GOBIIDAE	
K 7 25 06	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 18-33M	
UROPHYCIS CHLUS	1 1 13.2 NL		0.3
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED	SERRANIOAE	

TABLE 3. (continued)

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CRUISE DATE 066 7 1966 STA. NM	SPECIES ANALYZED	***** LARVAE *****					***** LARVAE *****					NO. PER 10 ² LARVAE	2 EGGS
		NUMBER	LENGTHS (MM)	MEAS.	RANGE	NO. EGGS	NUMBER	LENGTHS (MM)	MEAS.	RANGE	NO. EGGS		
L 1	23 C6	SAMPLING DEPTH 0-6M					SAMPLING DEPTH 0-6M						
	ANCHOA MITCHILLI	14	14	4.8	1.2-7.7	TL						1.7	
	CYNOSCION SP.	1	1	2.0		SL						0.1	
	PEPRILUS TRIACANTHUS	3	3	3.5	3.2-4.0	SL						0.4	
	ETRECPUS MICROSTOMUS	3	3	2.8	1.9-4.2	SL						0.4	
	ADDITIONAL LARVAE CAUGHT	SYNOBCHIDAE SYNGNATHIDAE BLENNIIDAE GOBIIDAE											
L 2	22 06	SAMPLING DEPTH 0-6M											
	ANCHOA MITCHILLI	24	23	3.8	1.9-6.8	TL						2.9	
	CYNOSCION SP.	1	1	2.0		SL						0.1	
	PEPRILUS TRIACANTHUS	8	8	3.5	2.4-7.1	SL						1.0	
	PRICNOTUS CARLINIUS	1	1	2.8		SL						0.1	
	ETRECPUS MICROSTOMUS	15	15	3.4	2.1-4.7	SL						1.8	
	LIMANDA FERRUGINEA	2										0.2	
	ADDITIONAL LARVAE CAUGHT	SYNOBCHIDAE OPHIIDAE GOBIIDAE TRIGLIDAE UNIDENTIFIED											
L 3	22 C6	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-24M						
	ANCHOA HEPSETUS	5	5	5.4	3.3-12.5	TL						1.6	
	MYCOTOPHIDAE	2	2	4.8	3.7-5.9	SL						0.6	
	BENTHOSEMA GLACIAE						1	1	8.0			0.2	
	LOPHIUS AMERICANUS	1	1	5.5		TL	4	4	5.8	4.3-7.2	TL	1.0	
	UPOMPHYS CHUSS	2	2	3.0	2.9-3.1	NL						0.6	
	CENTROPOMUS STRIATA						2	2	5.7	5.5-5.9	SL	0.3	
	PEPRILUS TRIACANTHUS	27	24	3.7	2.9-4.9	SL	74	67	3.4	1.6-8.7	SL	20.3	
	CITHARICHTHYS ARCIFRONS						2	2	9.1	8.5-9.7	SL	0.3	
	ETRECPUS MICROSTOMUS	13	13	3.6	2.6-6.7	SL	2	1	3.9		SL	4.3	
	HIPPOGLOSSINA OBLONGUS						7	7	4.7	3.3-5.8	SL	1.1	
	ADDITIONAL LARVAE CAUGHT	OPHIIDAE MUGILIDAE UNIDENTIFIED					OPHIIDAE TETRAODONTIDAE						
L 4	22 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M						
	SARINELLA ANCHOVIA	2	2	14.7	13.8-15.6	TL						0.7	
	MYCOTOPHIDAE	1	1	3.8		SL						0.3	
	OIAHUS SP.						1	1	5.3		SL	0.3	
	LOPHIUS AMERICANUS	6	6	4.8	3.8-5.7	TL	4	4	5.9	4.7-8.9	TL	3.1	
	ENCHELORHINUS CINCRIUS	1	1	4.0		SL	3	1	4.4		SL	1.3	
	PEPRILUS TRIACANTHUS	5	5	3.3	2.4-4.3	SL	13	12	5.3	3.8-6.6	SL	5.8	
	BCTHUS OCELLATUS						1	1	17.0		SL	0.3	
	ETRECPUS MICROSTOMUS	4	4	5.0	4.1-5.8	SL	1	1	5.1		SL	1.5	
	HIPPOGLOSSINA OBLONGUS	1	1	6.7		SL						0.3	
	ADDITIONAL LARVAE CAUGHT	SYNOBCHIDAE LABRIDAE OR SCARIDAE GOBIIDAE BALISTIDAE UNIDENTIFIED					SYNOBCHIDAE BLENNIIDAE GOBIIDAE TRIGLIDAE UNIDENTIFIED						
L 5	22 06	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M						
	ANCHOA HEPSETUS	5	5	8.1	4.9-12.6	TL						1.7	
	BENTHOSEMA GLACIAE	1	1	7.4		SL	2	2	5.5	5.3-5.8	SL	1.0	
	LOPHIUS AMERICANUS	6	6	6.3	4.6-9.4	TL	1	1	5.4		TL	2.1	
	ENCHELORHINUS CINCRIUS						1	1	4.1		SL	0.3	
	UPOMPHYS CHUSS	1	1	4.1		NL						0.3	
	MENTICIRRHUS SP.						1	1	4.1		SL	0.3	
	PEPRILUS TRIACANTHUS	30	30	4.2	1.9-7.3	SL	3	3	4.0	3.9-4.0	SL	10.0	
	ETRECPUS MICROSTOMUS	6	5	4.7	3.6-6.2	SL						2.0	
	HIPPOGLOSSINA OBLONGUS	5	5	4.5	3.1-6.4	SL	1	1	2.8		SL	1.8	
	LIMANDA FERRUGINEA						2	1	13.7		SL	0.7	
	ADDITIONAL LARVAE CAUGHT	LOPHIIFORMES OPHIIDAE CARANGIIDAE GOBIIDAE STROMATEIDAE TRIGLIDAE BALISTIDAE UNIDENTIFIED					OPHIIDAE GOBIIDAE BALISTIDAE UNIDENTIFIED						
# 1	23 06	SAMPLING DEPTH 0-6M											
	MENTICIRRHUS SP.	1	1	3.4		SL						0.1	

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CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2	
M66 7 1966		NUMBER	LENGTHS (MM)			NO.	NUMBER	LENGTHS (MM)			NO.	PER 10M	
STA.	0 M	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	LARVAE	EGGS
M 2	23 06	SAMPLING DEPTH	C-15M										
	FRAGAULIS EURYSTOLE	1	1	15.1		TL						0.3	
	MYCTOPHIDAE	1	1	3.7		SL						0.3	
	CYNESCION SP.	2	2	3.1	2.9- 3.4	SL						0.6	
	LEPTOCYCLUS FASCIATUS	1	1	3.7		SL						0.3	
	MYCTOPHIDAE SP.	5	5	3.4	2.4- 4.6	SL						1.5	
	PERILUS TRIACANTHUS	1	1	3.3		SL						0.3	
	SYMPHURUS SP.	1	1	2.8		SL						0.3	
	ADDITIONAL LARVAE CAUGHT	SYNODONTICAE PARALEPICIDAE OPHIIDICAE STROMATEICAE BALISTICAE TETRAODONTICAE											
.....													
M 3	23 06	SAMPLING DEPTH	0-15M										
	OPHIICHTHUS GOMEST	3	3	28.8	24.5-31.5	TL						0.9	
	SARDINELLA ANCHONIA	2	2	8.8	7.0-10.7	TL						0.6	
	FRAGAULIS EURYSTOLE	22	22	8.5	3.9-17.7	TL						6.7	
	MYCTOPHIDAE	2	1	4.6		SL						0.6	
	GERATOSCORPUS MADERENSIS	12	12	5.4	3.5- 7.0	SL						3.6	
	GERATOSCORPUS WARMINGI	1	1	7.6		SL						0.3	
	DIAPHUS SP.	1										0.3	
	MYCTOPHIDAE AFFINE	3	3	5.4	4.0- 6.8	SL						0.9	
	HEMANTHUS VIVANUS	2	2	3.4	3.0- 3.9	SL						0.6	
	ALIXIS SP.	186	183	4.5	3.1-10.5	SL						6.4	
	PLTYNNUS ALLETERATUS	1	1	6.8		SL						0.3	
	THUNNUS ALBACARES	1	1	7.1		SL						0.3	
	THUNNUS GREGSUS OF ATLANTICUS	1	1	6.1		SL						0.3	
	PERILUS TRIACANTHUS	2	2	3.3	2.5- 4.1	SL						0.6	
	PERILUS OCELLATUS	12	12	5.7	3.5- 7.4	SL						3.6	
	CYCLOPSETTA FIMBRIATA	1	1	3.8		SL						0.3	
	ETROPUS MICROSTOMUS	2	2	3.1	2.9- 3.3	SL						0.6	
	SYCTIUM PAPILLOSUM	15	15	4.3	2.1- 8.2	SL						4.5	
	SYMPHURUS SP.	3	3	4.6	3.0- 6.7	SL						0.9	
	ADDITIONAL LARVAE CAUGHT	MURAENICAE CYCLOTHICAE SP. SYNODONTICAE PARALEPICIDAE LOPHIICHTHUS SYNGNATHICAE SERRANICAE APOGONICAE CARANGICAE CORYPHAENICAE SPARIDAE LABRIDAE OR SCARIDAE MUGILICAE BLENNIICAE GOBIIDAE SCORPAENICAE BALISTICAE TETRAODONTICAE UNIDENTIFIED											

TABLE 3. (continued)

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CRUISE DATE D66 7 1966 STA. 04 SPECIES ANALYZED M 4 23 06	***** LARVAE *****					***** LARVAE *****					2 NO. PER 100 EGGS
	NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS	NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS	
	TOTAL	MEAS.	MEAN	RANGE	MEAS.	TOTAL	MEAS.	MEAN	RANGE	MEAS.	
	SAMPLING	DEPTH	0-15M			SAMPLING	DEPTH	1E-33M			
MEGALOPS ATLANTICA						1	1	10.5		NL	0.3
ALBULA VILPES						2	1	20.0		NL	0.7
OPHICHTHUS GOMESI						2	2	21.2	18.0-24.7	TL	0.7
SARINELLA ANCHOVIA	1	1	10.6		TL						0.3
ENGRAULIS EURYSTOMUS	45	43	8.2	3.2-20.7	TL	14	14	5.8	2.6-15.1	TL	18.2
MYCTOPHIDAE	9	9	4.6	2.6-6.4	SL						3.0
BENTHOSOMA SUBORBITALE	1	1	4.8		SL	1	1	5.1		SL	0.6
CERATOSCOPULUS MAHERENSIS	3	3	7.4	6.6-8.3	SL	1	1	10.9		SL	1.2
CIAPHUS SP.	1	1	4.5		SL	4	4	5.6	3.9-7.5	SL	1.6
LAMPANYCTUS ALATUS OR PHOTONCTUS	1	1	5.4		SL	1	1	5.1		SL	0.6
LAMPANYCTUS CUPRINUS						1	1	6.2		SL	0.3
MYCTOPHUM SELENOPS	1	1	4.3		SL						0.3
HYPOPHYSIS CHLUS	1	1	2.4		NL						0.3
HEMIRHAMPHUS VIVANUS	1	1	4.1		SL	1	1	6.0		SL	0.6
LARIMUS FASCIATUS	1	1	3.9		SL						0.3
AUXIS SP.	143	130	5.2	3.4-12.6	SL	35	35	6.4	4.0-10.4	SL	54.6
THURNUS OPESUS OR ATLANTICUS	1	1	6.3		SL						0.3
THURNUS THYNNUS	1	1	9.3		SL						0.3
PEPILUS TRIACANTHUS	3	3	2.8	2.5-3.5	SL						1.0
BOTHUS OCELLATUS	41	25	6.4	3.5-10.2	SL	15	14	5.2	3.5-14.0	SL	17.3
ETREPS MICROSTOMUS	3	2	4.4	3.7-5.0	SL	2	2	3.8	3.7-3.9	SL	1.6
SYACIUM PAPILLOSUM	48	47	5.4	2.8-11.1	SL	20	20	3.7	1.9-5.4	SL	21.1
SYMPHYRUS SP.	4	4	6.2	3.7-10.7	SL	4	4	5.5	3.3-7.7	SL	2.5
ADDITIONAL LARVAE CAUGHT											
					ANGUILLIFORMES					MURAENIDAE	
					CYCLOTHA SP.					OPHICHTHIDAE	
					SYNOBONTIDAE					CYCLOTHA SP.	
					PARALEPIDIDAE					SYNOBONTIDAE	
					MYCTOPHIDAE					PARALEPIDIDAE	
					BREGMACEROTIDAE					LOPHIIFORMES	
					OPHIIDIDAE					BREGMACEROTIDAE	
					FISTULARIIDAE					FISTULARIIDAE	
					SERRANIDAE					SERRANIDAE	
					APOGONIDAE					MALACANTHUS SP.	
					CARANGIDAE					LABRIDAE OR SCARIDAE	
					CORYPHAENIDAE					CALLIONYMIDAE	
					SPARIDAE					GOBIIDAE	
					POMACENTRIDAE					ISTIOPHORIDAE	
					LABRIDAE OR SCARIDAE					SCORPAENIDAE	
					MUGILIDAE					DACTYLOPTERUS VELITANS	
					BLENNIIDAE					BALISTIDAE	
					CALLIONYMIDAE					TETRAODONTIDAE	
					COBIIDAE					UNIDENTIFIED	
					STROMATEIDAE						
					SCORPAENIDAE						
					TRIGLIDAE						
					DACTYLOPTERUS VELITANS						
					BALISTIDAE						
					TETRAODONTIDAE						
					UNIDENTIFIED						

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DATE		***** LARVAE *****				***** LARVAE *****		***** LARVAE *****		***** LARVAE *****	
STA.	N M	SPECIES ANALYZED	NUMBER	LENGTHS (MM)	NO.	NUMBER	LENGTHS (MM)	NO.	NUMBER	LENGTHS (MM)	NO.
			TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.
N 5	23 06		SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M		
		MEGALOPS ATLANTICA	2	2	10.4	9.0-11.8	NL				0.7
		OPHIOTRICHIDAE	1	1	37.0		TL				0.3
		AFETRICHTHUS KENDALLI						1	1	18.0	TL
		CALIESCHELYS PERRYAE	1	1	58.0		TL				0.3
		MYRICHTHYS SP.						1	1	18.0	NL
		OPHIOTRICHUS GOMESI	2	2	39.5	25.0-54.0	TL	3	3	30.3	20.7-44.8
		ENGRAULIS EURYSTOMUS	134	23	7.7	2.0-13.7	TL	7	6	5.4	6.5-12.7
		MYCTOPHIDAE	4	4	4.6	4.0- 5.0	SL	11	8	4.4	3.7- 5.5
		CERATOSCOPELUS MAHERENSIS	4	4	5.8	5.1- 6.7	SL	1	1	7.6	SL
		CERATOSCOPELUS WARMINGI	2	2	5.6	5.5- 5.7	SL	4	4	6.1	5.4- 7.1
		DIAPHUS SP.	9	9	6.1	4.1- 9.7	SL	4	4	6.6	4.9- 9.5
		LAMPADENA SP.	2	2	5.5	5.3- 5.7	SL				4.0
		HEMIRHAMPHUS VIVANUS	9	8	5.2	3.6- 8.2	SL	6	6	5.6	3.2- 7.6
		LARIMUS FASCIATUS	2	2	3.5	3.3- 3.7	SL				4.7
		AUXIS SP.	193	122	5.4	2.8- 9.7	SL	36	35	6.7	3.6-10.3
		ELTHYNNUS ALLETTERATUS	2	2	6.8	5.4- 8.2	SL	1	1	6.4	SL
		KATSUONUS PELAMIS	5	5	5.9	5.1- 6.5	SL				69.9
		SCORPAENOCORUS CAVALLA	2	2	5.6	5.7- 6.1	SL				0.9
		THYNNUS THYNNUS	1	1	5.4		SL				1.7
		PEPRILUS TRIACANTHUS	12	11	4.6	2.2- 7.0	SL				0.7
		BOTHUS OCELLATUS	42	25	5.7	3.4- 9.4	SL	79	25	5.5	3.3-12.2
		CYCLOPSETTA FIMBRIATA	5	5	6.6	3.0-11.0	SL				38.9
		ETICOPS MICROSTOMUS	3	3	4.5	3.3- 5.7	SL	6	6	4.0	3.2- 5.5
		MONOENESSILICAUDA	2	2	9.4	8.6-10.1	SL	1	1	7.1	SL
		SYACIUM PAPILLOSUM	100	25	4.5	3.0- 9.4	SL	14	14	4.2	2.3- 7.0
		SYMPTURUS SP.	23	19	5.4	3.3-10.7	SL	5	5	7.0	4.0- 5.7
		ADDITIONAL LARVAE CAUGHT									8.6

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[illegible]

TABLE 3. (continued)

CRUISE DATE	***** LARVAE *****	***** LARVAE *****	2
066 7 1966	NUMBER LENGTHS (MM) NO.	NUMBER LENGTHS (MM) NO.	NO. PER 10M
STA. NO SPECIES ANALYZED	TOTAL MEAS. MEAN RANGE MEAS. EGGS	TOTAL MEAS. MEAN RANGE MEAS. EGGS	LARVAE EGGS
P 1 24 06	SAMPLING DEPTH 0- 6M		
ANCHOA HEPSETUS	2 2 17.3 9.7-25.0 TL		0.2
ADDITIONAL LARVAE CAUGHT	SCIAENIDAE BLENNIIDAE TRIGLICAE UNIDENTIFIED		
.....			
P 2 24 06	SAMPLING DEPTH 0- 6M		
SARCEVELLA ANCHOVIA	6 6 5.5 3.0- 8.1 TL		0.7
ANCHOA HEPSETUS	1 1 17.0 TL		0.1
ENGRAULIS EURYSTOIE	96 1 16.8 TL		11.6
MENTICIPPUS SP.	8 6 2.7 1.9- 3.5 SL		1.0
PICNOTUS CAROLINUS	9 9 3.3 1.6- 4.5 SL		1.1
SYMPHURUS SP.	2 2 3.8 3.3- 4.2 SL		0.2
ADDITIONAL LARVAE CAUGHT	SYNODONTIDAE ATHERINIDAE SYNGNATHIDAE BLENNIIDAE STROMATEIDAE BALISTIDAE UNIDENTIFIED		
.....			
P 3 24 06	SAMPLING DEPTH 0- 6M		
ANCHOA HEPSETUS	2 2 16.7 15.0-18.5 TL		0.2
PEREILUS TRIACANTHUS	47 45 1.7 1.1- 2.1 SL		5.7
SYMPHURUS SP.	1 1 3.1 SL		0.1
ADDITIONAL LARVAE CAUGHT	BLENNIIDAE COBITIDAE BALISTIDAE UNIDENTIFIED		
.....			
F 4 24 06	SAMPLING DEPTH C-15M	SAMPLING DEPTH 18-24M	
ENGRAULIS EURYSTOIE	5 4 8.9 7.5-10.3 TL		1.6
PICNOTUS CAROLINUS	7 7 2.1 1.7- 2.7 SL	1 1 1.5 SL	2.3
FIREPUS MICROSTOMUS	2 2 2.9 2.9- 2.5 SL	1 2 2.8 2.8- 2.8 SL	0.8
SYMPHURUS SP.	5 5 2.9 2.5- 3.2 SL	1 1 3.1 SL	1.7
ADDITIONAL LARVAE CAUGHT	CARANGIDAE BLENNIIDAE BALISTIDAE UNIDENTIFIED	OPHIIDAE BALISTIDAE UNIDENTIFIED	
.....			
F 5 25 06	SAMPLING DEPTH C-15M	SAMPLING DEPTH 18-33M	
ENGRAULIS EURYSTOIE		2 2 8.3 6.1-10.5 TL	0.7
MYCTOPHIDAE	5 5 3.8 3.2- 4.2 SL	2 2 3.7 3.6- 3.9 SL	2.2
CERATOSCOPELUS MADAGASCARIENSIS	9 9 7.8 5.7- 11.4 SL	2 2 6.5 7.5- 9.6 SL	3.4
CERATOSCOPELUS WAKAMINGI	11 11 4.4 2.9- 5.9 SL	31 30 4.2 2.6- 7.7 SL	13.6
CIARHUS SP.	7 7 5.5 4.0- 8.0 SL	10 10 5.4 3.1- 9.7 SL	5.4
LAMPANYCTUS SP.	2 2 3.8 3.3- 4.3 SL		0.7
LAMPANYCTUS ALATUS OR PHOTONOTUS		3 3 8.3 3.9-10.5 SL	1.0
LAMPANYCTUS ATER	1 1 6.7 SL		0.3
LAMPANYCTUS NORILIS		2 2 5.5 5.2- 6.7 SL	0.7
LAMPADENA SP.	1 1 7.6 SL		0.3
ACANTHOCYBIUM SOLANDERI	3 3 4.8 2.6- 8.3 SL	1 1 6.2 SL	1.2
ALXIS SP.	6 6 3.8 2.9- 5.6 SL	4 4 5.2 4.8- 5.8 SL	3.1
KATSUMONIS PELAMIS		5 5 4.0 2.8- 5.9 SL	1.7
ACTHUS OCELLATUS	2 2 4.5 3.6- 5.4 SL	5 5 5.3 3.5- 6.7 SL	2.3
SYNACTIUM PAPILLOSUM		1 1 10.5 SL	0.3
ADDITIONAL LARVAE CAUGHT	CYCLOTHONE SP. VINCIGUERRIA SP. STOMIATIDAE CAPROIDAE SERRANIDAE POMACENTRIDAE MUGILICAE BALISTIDAE TETRAODONTIDAE UNIDENTIFIED	CYCLOTHONE SP. STOMIATIDAE SYNODONTIDAE CHLOROPHTHALMICAE PARALEPIDIDAE CAPROIDAE SERRANIDAE APOGONIDAE CARANGIDAE LABRIDAE OR SCARIDAE CALLIONYMIDAE GEMPYIDAE SCORPAENIDAE TETRAODONTIDAE UNIDENTIFIED	

CRUISE DATE		***** LARVAE *****						***** LARVAE *****						2	
NO 610	1966	NUMBER	LENGTHS (MM)			NO.	NUMBER	LENGTHS (MM)			NO.	2			
STA.	04	SPECIES ANALYZED	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	NO. PER 10M		
A 1	C5 08		SAMPLING DEPTH	0-6M				SAMPLING DEPTH	1E-24M				EGGS		
		CERATOSCOPELLUS MADEFENSIS	1	1	8.2	SL							0.1		
		ENCHELIOPOUS CIMBRIUS					1						0.0		
		UROCHYCHIS CHUSS	13	10	3.3	2.1- 4.8	NL						1.6		
		MERLUCCIIUS BILINEARIS	14	13	3.2	2.2- 5.6	NL	1					1.7		
		TAUTOGA ONITIS	3	3	4.1	2.6- 5.6	TL						0.4		
		TALINGCLABRUS ADSPERSUS	25	25	7.2	4.8-11.4	TL						3.0		
		PEPRILUS TRIACANTHUS	8	8	4.5	4.0- 7.0	SL						1.0		
		HIPPOTHECINUS OBLONGUS	3	3	2.9	2.7- 3.0	SL						0.4		
		HIPPOTHECINUS OBLONGUS	12	6	5.4	2.7- 9.0	SL						1.5		
		SCOPHTHALMUS AQUOSUS	6	6	3.5	2.6- 4.3	SL						0.7		
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED													

A 2	C5 08		SAMPLING DEPTH	0-15M											
		UROCHYCHIS CHUSS	33	13	2.7	1.6- 5.5	NL						10.0		
		MERLUCCIIUS BILINEARIS	31	29	2.8	1.6- 5.1	NL	47					9.4		
		TAUTOGOLABRUS ADSPERSUS	4	4	6.1	4.1- 7.6	TL						1.2		
		SCOPHTHALMUS AQUOSUS	1	1	7.7		SL	0					0.3		
		PEPRILUS TRIACANTHUS	9	9	4.3	3.3- 5.8	SL						2.7		
		HIPPOTHECINUS OBLONGUS	9	9	3.9	2.4- 7.2	SL						2.7		
		SCOPHTHALMUS AQUOSUS	39	38	3.7	2.4- 4.9	SL						11.8		
		GLYPTOCEPHALUS CYNODLOSSUS	1	1	14.7		SL						0.3		
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED													

A 3	C5 09		SAMPLING DEPTH	0-15M				SAMPLING DEPTH	1E-24M						
		CERATOSCOPELLUS MADEFENSIS	1	1	7.5		SL						0.3		
		ENCHELIOPOUS CIMBRIUS	4	4	4.4	2.9- 6.8	SL	0					1.3		
		UROCHYCHIS CHUSS	8	6	2.2	1.6- 2.7	NL	3	1	2.4		NL	2.9		
		MERLUCCIIUS BILINEARIS	41	34	4.0	2.2- 6.2	NL	73	20	20	5.8	2.2- 8.6	NL	15.8	
		TAUTOGOLABRUS ADSPERSUS	2	2	4.0	3.8- 4.3	TL						0.6		
		SCOPHTHALMUS AQUOSUS	5	5	5.8	3.7- 7.0	TL						1.6		
		SCOPHTHALMUS AQUOSUS	1	1	3.5		SL	0					0.3		
		PEPRILUS TRIACANTHUS	7	7	4.6	2.9- 5.5	SL	2	2	2.4	2.3- 2.6	SL	2.5		
		HIPPOTHECINUS OBLONGUS	6	4	2.7	2.4- 2.8	SL						1.9		
		SCOPHTHALMUS AQUOSUS	26	26	4.1	3.0- 6.2	SL	14	14	4.4	3.0- 6.7	SL	10.2		
		LIMANDA FERRUGINEA	1	1	7.3		SL	2	2	7.4	6.1- 8.7	SL	0.6		
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED													

A 4	C5 08		SAMPLING DEPTH	0-15M				SAMPLING DEPTH	1E-33M						
		CERATOSCOPELLUS MADEFENSIS	2	2	6.8	6.5- 7.2	SL						0.7		
		ENCHELIOPOUS CIMBRIUS	1	1	2.8		SL	5	11	9	3.0	1.6- 4.3	SL	4.0	
		UROCHYCHIS CHUSS	72	12	2.2	1.3- 3.7	NL		1	1	4.3		NL	24.0	
		MERLUCCIIUS BILINEARIS	217	153	3.1	1.6- 5.7	NL	119	54	49	5.1	2.4- 6.9	NL	13.1	
		TAUTOGOLABRUS ADSPERSUS	2	2	6.5	5.0- 8.1	TL						0.7		
		PEPRILUS TRIACANTHUS	2	2	2.4	1.7- 3.1	SL						0.7		
		HIPPOTHECINUS OBLONGUS	13	7	2.5	2.2- 2.8	SL						4.3		
		SCOPHTHALMUS AQUOSUS	12	12	2.9	2.2- 4.4	SL						4.0		
		GLYPTOCEPHALUS CYNODLOSSUS	3	2	7.8	5.9- 9.7	SL	7	4	8.4	5.0-10.6	SL	3.2		
		LIMANDA FERRUGINEA						32	23	7.0	4.6-11.4	SL	10.7		
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED													

A 5	C5 08		SAMPLING DEPTH	0-15M				SAMPLING DEPTH	1E-33M						
		CERATOSCOPELLUS MADEFENSIS					SL						0.3		
		ENCHELIOPOUS CIMBRIUS	42	41	3.4	1.7- 5.7	SL	11	22	22	3.4	2.1- 4.8	SL	19.9	
		UROCHYCHIS CHUSS	11	11	3.5	1.5- 7.5	NL		28	12	3.7	2.1- 5.2	NL	12.6	
		MERLUCCIIUS BILINEARIS	144	141	5.0	2.7- 8.1	NL	6	120	116	5.3	2.1- 6.6	NL	83.2	
		TAUTOGOLABRUS ADSPERSUS	8	8	6.4	4.5- 8.6	TL		9	9	4.7	2.8- 8.5	TL	5.4	
		SARCA SAEPA	3	3	4.4	3.3- 4.5	SL	0	1	1	2.6		SL	1.2	
		PEPRILUS TRIACANTHUS	14	13	3.6	1.6- 8.0	SL		23	22	3.0	2.0- 6.5	SL	11.9	
		CITHARICHTHYS APEIFRONS	13	13	6.7	6.0- 8.6	SL		23	23	6.4	4.5- 8.3	SL	11.6	
		HIPPOTHECINUS OBLONGUS	11	11	5.7	3.9- 7.1	SL		7	7	5.6	4.7- 6.6	SL	5.6	
		GLYPTOCEPHALUS CYNODLOSSUS	8	8	5.1	3.3- 6.4	SL		10	9	7.8	4.2-15.2	SL	5.7	
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED													

TABLE 3. (continued)

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CRUISE DATE D661C 1966 STA. 7 M A 6 05 08	SPECIES ANALYZED	***** NUMBER TOTAL MEAS. SAMPLING DEPTH	***** LENGTHS (MM) RANGE 0-15M	***** MEAS. NO. EGGS	***** NUMBER TOTAL MEAS. SAMPLING DEPTH	***** LENGTHS (MM) RANGE 18-33M	***** MEAS. NO. EGGS	***** NO. LARVAE	***** PER 10 ² EGGS
	CERATOSCOPELUS MADRENSIS	23	23	6.5	5.1- 9.6	SL		16.9	
	LOPHIUS AMERICANUS	5	5	5.2	4.7- 5.8	TL		2.8	
	ENCHELYOPUS CIMBRIUS	5	5	3.2	2.5- 3.8	SL	124	2.2	44.7
	UROPHYCIS SP.	1						0.3	
	UROPHYCIS CHUS	1035	29	2.7	1.5- 4.8	NL		345.0	
	MERLUCCIIUS BILINEARIS	144	131	4.0	2.2- 6.6	NL	71	164.5	23.7
	TALITOGOLABRUS ADSPERSUS	5	5	6.4	4.5- 9.9	TL		1.8	
	ALXIS SP.	7	7	6.0	4.7- 7.7	SL		2.3	
	SARCA SARCA	6	4	3.7	3.0- 5.0	SL	17	2.0	5.7
	SCOPAR SCOPARUS	1	1	3.2		SL	0	0.3	0.0
	PEPRILUS TRIACANTHUS	176	71	3.0	2.3- 6.8	SL		58.7	
	CITHARICHTHYS ARCTIFRONS	486	25	5.2	3.0- 6.8	SL		241.8	
	HIPPOGLOSSINA OBLONGUS	175	170	4.0	2.4- 6.6	SL		58.3	
	GLYPTOCEPHALUS CYNOGLOSSUS							8.3	
	LIMANDA FERRUGINEA							4.3	
	ADDITIONAL LARVAE CAUGHT	OPHIDIIDAE			OPHIDIIDAE				
		STROMATEIDAE			STROMATEIDAE				
		UNIDENTIFIED			UNIDENTIFIED				
.....									
A 7 05 08		SAMPLING DEPTH	0-15M		SAMPLING DEPTH	18-33M			
	CERATOSCOPELUS MADRENSIS	99	59	6.5	5.4- 10.3	SL		51.0	
	CERATOSCOPELUS WARMINGI	1	1	6.2		SL		0.3	
	LOPHIUS AMERICANUS							2.3	
	ENCHELYOPUS CIMBRIUS						0	0.0	1.0
	UROPHYCIS SP.	1	1	4.1		NL		0.3	
	UROPHYCIS CHUS	232	54	2.3	1.2- 4.4	NL		114.6	
	MERLUCCIIUS BILINEARIS	7	5	3.6	2.3- 4.3	NL	5	15.4	4.8
	ALXIS SP.	622	147	3.8	2.4- 9.5	SL		207.3	
	SARCA SARCA	8	8	3.4	3.2- 3.9	SL	12	2.7	4.0
	PEPRILUS TRIACANTHUS	16	16	3.3	1.1-14.9	SL		5.3	
	ACTHUS OCELLATUS	1	1	11.0		SL		0.3	
	CITHARICHTHYS ARCTIFRONS	72	25	3.8	2.2-11.6	SL		66.9	
	HIPPOGLOSSINA OBLONGUS	50	45	3.2	2.4- 6.0	SL		25.7	
	LIMANDA FERRUGINEA							0.3	
	ADDITIONAL LARVAE CAUGHT	CYCLOTHERA SP.			OPHIDIIDAE				
		OPHIDIIDAE			LABRIDAE OR SCARIDAE				
		STROMATEIDAE			Gobiidae				
		UNIDENTIFIED			STROMATEIDAE				
		UNIDENTIFIED			UNIDENTIFIED				
.....									
B 1 06 09		SAMPLING DEPTH	0-15M		SAMPLING DEPTH	18-33M			
	BREVORTIA TYRANNUS	1	1	5.6		TL		0.3	
	ENCHELYOPUS CIMBRIUS	4	4	3.1	1.7- 5.3	SL	0	1.2	0.0
	UROPHYCIS CHUS	13	10	3.4	3.2- 3.7	NL		3.9	
	MERLUCCIIUS BILINEARIS	2	1	2.6		NL	0	0.6	0.0
	TALITOGA ONITIS	41	26	3.8	2.7- 4.5	TL		12.4	
	TALITOGOLABRUS ADSPERSUS	93	52	4.2	2.3- 8.5	TL		28.2	
	PEPRILUS TRIACANTHUS	33	30	3.0	1.7- 4.6	SL		10.0	
	PRIONOTUS CAROLINUS	9	9	3.3	2.1- 5.0	SL		2.7	
	HIPPOGLOSSINA OBLONGUS	3	2	3.6	2.6- 4.5	SL		0.9	
	ADDITIONAL LARVAE CAUGHT	STROMATEIDAE			OPHIDIIDAE				
		UNIDENTIFIED			LABRIDAE OR SCARIDAE				
		UNIDENTIFIED			Gobiidae				
		UNIDENTIFIED			STROMATEIDAE				
		UNIDENTIFIED			UNIDENTIFIED				
.....									
B 2 06 09		SAMPLING DEPTH	0-15M		SAMPLING DEPTH	18-33M			
	LOPHIUS AMERICANUS				1	1	8.2		0.1
	ENCHELYOPUS CIMBRIUS				2	6	3.6	2.2- 4.8	0.6
	UROPHYCIS CHUS	40	25	2.2	1.2- 4.0	NL		14.4	0.6
	MERLUCCIIUS BILINEARIS	7	7	3.8	2.5- 4.7	NL	9	5.2	2.5
	TALITOGA ONITIS	16	16	3.0	2.2- 4.1	TL		5.3	
	TALITOGOLABRUS ADSPERSUS	143	130	3.4	2.0- 6.8	TL		46.8	
	SCOPAR SCOPARUS	1	1	4.0		SL	0	0.4	0.0
	PEPRILUS TRIACANTHUS	30	28	2.9	1.9- 4.0	SL		13.0	
	PRIONOTUS CAROLINUS	14	14	3.1	1.9- 4.2	SL		4.5	
	CITHARICHTHYS ARCTIFRONS							0.1	
	HIPPOGLOSSINA OBLONGUS	8	6	3.4	2.3- 4.2	SL		3.2	
	SCOPHALMUS AQUOSUS	3	2	3.0	2.7- 3.2	SL		1.5	
	GLYPTOCEPHALUS CYNOGLOSSUS							0.1	
	ADDITIONAL LARVAE CAUGHT	STROMATEIDAE			OPHIDIIDAE				
		UNIDENTIFIED			STROMATEIDAE				
		UNIDENTIFIED			UNIDENTIFIED				
.....									
B 3 06 09		SAMPLING DEPTH	0-15M		SAMPLING DEPTH	18-33M			
	ENCHELYOPUS CIMBRIUS	1	1	2.0		SL	2	0.3	0.7
	UROPHYCIS CHUS	1	1	2.5		NL		1.0	
	MERLUCCIIUS BILINEARIS	2	2	2.0	1.9- 2.2	NL	22	3.9	7.3
	TALITOGOLABRUS ADSPERSUS	17	14	2.8	2.1- 3.7	TL		8.4	
	PEPRILUS TRIACANTHUS	1	1	2.0		SL		0.6	
	HIPPOGLOSSINA OBLONGUS	2						0.7	
	GLYPTOCEPHALUS CYNOGLOSSUS							1.0	
	LIMANDA FERRUGINEA							2.7	
	ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED			UNIDENTIFIED				

TABLE 3. (continued)

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CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2		
C6610 1966		NUMBER					NUMBER					NO. PER 10M ²		
STA. 04 SPECIES ANALYZED		TOTAL MEAS. MEAN LENGTHS (MM) RANGE MEAS. EGGS					TOTAL MEAS. MEAN LENGTHS (MM) RANGE MEAS. EGGS					LARVAE		
P 4 C6 C9		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-23M							
LCPHIUS AMERICANUS		5	5	3.1	2.4- 3.9	SL	0	1	1	5.6		TL	0.3	
ENCHELYPELUS CIMBRIUS		23	10	3.6	1.9- 6.1	NL		1	1	6.5		SL	1.8	0.0
UROPHYCIS CHUSS		29	25	3.9	1.7- 6.4	NL	4	15	15	5.5	2.9- 5.2	NL	0	13.7
MERLUCCIIUS BILINEARIS		28	28	3.6	2.8- 5.8	SL		2	2	4.0	3.9- 4.1	SL		9.3
PCMATOMUS SALIATRIX		1	1	2.2		TL								0.3
TAUTOGLAERUS AOSPERSUS		18	18	4.0	2.9- 6.4	TL		2	2	2.6	3.0- 4.3	TL		6.1
SARCA SARCA		20	16	4.0	3.2- 5.6	SL	6						0	6.7
PEPRILUS TRIACANTHUS		41	38	3.3	1.3- 6.3	SL		11	11	4.6	3.5- 6.3	SL		16.0
PILONITUS CARLINIUS		3	3	4.0	3.4- 4.4	SL								1.0
CITHARICHTHYS ARCTIFRONS		1	1	5.2		SL		1	1	6.1		SL		0.6
HIPPOGLOSSINA OBLONGUS		10	10	3.9	2.2- 5.4	SL								3.3
SCOPHTHALMUS AQUOSUS		1	1	2.3		SL								0.3
GLYPTOCEPHALUS CYNOCLOSSUS								3	3	5.3	7.7-10.4	SL		1.0
LIMANDA FERRUGINEA								12	12	7.5	6.1- 9.9	SL		4.0
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED							UNIDENTIFIED							
.....														
P 5 C6 C8		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M							
CERATOSCOPELUS MADERENSIS		1	1	3.5		TL		5	5	7.4	6.7- 8.5	SL		1.7
LCPHIUS AMERICANUS		2	2	5.2	3.8- 6.6	SL	0	1	1	6.6		TL		0.6
ENCHELYPELUS CIMBRIUS		35	17	2.7	1.2- 4.6	NL		26	25	3.8	2.3- 6.5	SL	5	9.3
UROPHYCIS CHUSS		112	88	4.1	2.0- 5.7	NL	12	5	2	2.1	1.2- 4.5	NL		12.2
MERLUCCIIUS BILINEARIS		9	9	3.5	3.0- 4.1	SL		85	65	6.2	2.2-13.0	NL	2	61.9
PCMATOMUS SALIATRIX		26	24	4.0	2.5- 5.7	TL								3.0
TAUTOGLAERUS AOSPERSUS		1	1	4.9		SL		3	2	4.0	3.4- 4.6	TL		8.8
ALXIS SP.		61	58	4.0	3.2- 6.4	SL	5	1	1	6.0		SL		0.6
SARCA SARCA		2	2	2.9	2.7- 3.2	SL	0						0	20.3
SCOMBER SCOMBRUS		39	37	3.4	1.6- 8.7	SL		69	48	3.0	2.6- 3.8	SL	0	23.6
PEPRILUS TRIACANTHUS		46	25	5.5	4.5- 8.1	SL		11	11	4.2	1.6- 7.2	SL		15.4
CITHARICHTHYS ARCTIFRONS		21	20	4.5	2.4- 7.1	SL		8	8	6.9	5.7-11.4	SL		16.5
HIPPOGLOSSINA OBLONGUS								2	1	6.3		SL		7.0
GLYPTOCEPHALUS CYNOCLOSSUS								4	3	12.1	8.9-15.4	SL		1.3
LIMANDA FERRUGINEA								10	5	5.2	7.5-11.9	SL		3.3
ADDITIONAL LARVAE CAUGHT		PISODONCHIS CRUENTIFER					DPHICHTHICAE							
		STROMATEICAE					UNIDENTIFIED							
		UNIDENTIFIED					UNIDENTIFIED							
.....														
P 6 C6 C8		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M							
CERATOSCOPELUS MADERENSIS		7	7	7.4	6.7- 8.6	SL		6	6	8.0	7.7- 8.4	SL		4.1
LCPHIUS AMERICANUS							0	8	8	5.7	4.3- 8.1	TL		2.7
ENCHELYPELUS CIMBRIUS		367	42	3.7	1.4- 8.6	NL		5	5	3.4	2.7- 4.1	SL	0	1.7
UROPHYCIS CHUSS		98	56	5.4	2.6-15.1	NL	1	29	11	4.2	2.4- 5.1	NL		122.3
MERLUCCIIUS BILINEARIS		5	5	3.6	3.4- 3.8	SL		172	149	6.8	3.0-16.7	NL	0	86.7
PCMATOMUS SALIATRIX		1	1	6.7		TL								1.7
TAUTOGLAERUS AOSPERSUS		17	17	4.7	4.0- 7.0	SL								0.3
ALXIS SP.		8	8	6.1	5.6- 6.8	SL	0	1	1	4.1		SL		5.7
SARCA SARCA		207	59	3.3	1.2-17.6	SL		1	1	5.0		SL	0	2.7
PEPRILUS TRIACANTHUS		42	25	5.5	4.1- 7.1	SL		10	10	5.0	2.2-13.5	SL		69.0
CITHARICHTHYS ARCTIFRONS		71	50	4.4	3.1- 6.2	SL		2	1	9.9		SL		14.0
HIPPOGLOSSINA OBLONGUS								5	5	4.9	3.7- 6.3	SL		23.7
GLYPTOCEPHALUS CYNOCLOSSUS								3	2	12.9	11.6-15.4	SL		1.0
LIMANDA FERRUGINEA								5	5	9.4	7.8-10.6	SL		1.7
ADDITIONAL LARVAE CAUGHT		ANGUILLIFORMES					UNIDENTIFIED							
		CYCLOTHONE SP.												
		OPHIIDICAE												
		UNIDENTIFIED					UNIDENTIFIED							
.....														
P 7 C5 C8		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M							
PISODONCHIS CRUENTIFER		2	2	38.2	22.5-54.0	TL		19	19	8.0	6.2- 5.4	SL		0.7
CERATOSCOPELUS MADERENSIS		15	15	7.9	6.3- 9.8	SL		25	25	5.0	3.2- 7.3	TL		10.8
LCPHIUS AMERICANUS		227	20	3.6	1.4-15.5	NL		88	16	2.9	2.3- 5.3	NL		8.3
UROPHYCIS CHUSS		163	162	6.6	3.2-15.3	NL	0	726	701	8.5	3.5-25.9	NL	0	57.4
MERLUCCIIUS BILINEARIS		3	3	5.5	3.8- 8.6	SL								250.9
ALXIS SP.		2	2	7.5	6.0- 9.0	SL								1.0
PEPRILUS TRIACANTHUS		39	25	6.9	4.2-12.1	SL		21	21	7.0	2.6-11.0	SL		6.7
CITHARICHTHYS ARCTIFRONS		7	6	5.2	3.5- 6.7	SL								18.7
HIPPOGLOSSINA OBLONGUS								6	6	14.9	6.7-24.5	SL		2.3
GLYPTOCEPHALUS CYNOCLOSSUS								10	10	10.5	8.2-14.6	SL		2.0
LIMANDA FERRUGINEA		1	1	15.4		SL								3.6
ADDITIONAL LARVAE CAUGHT		ANGUILLIFORMES					CYCLOTHONE SP.							
		OPHIIDICAE												
		LOPHIICEMES												
		OPHIIDICAE												
		CALLIONYMICAE												
		STROMATEICAE												
		UNIDENTIFIED												

TABLE 3. (continued)

CRUISE DATE		***** LARVAE *****				***** LARVAE *****				2			
0610 1966		NUMBER		LENGTHS (MM)		NUMBER		LENGTHS (MM)		NO. PER 10 ⁴			
STA.	NO. SPECIES ANALYZED	TOTAL MEAS.	MEAN	RANGE	MEAS.	TOTAL MEAS.	MEAN	RANGE	MEAS.	LARVAE	EGGS		
C 1	66 08	SAMPLING DEPTH 0-6M											
	AREVOORTIA TYRANNUS	3	3	8.6	8.1- 9.1 TL					0.4			
	ENGRAULIS EURYSTOIE	223	29	5.2	2.8- 6.5 TL					27.0			
	LEPIDIUS AMERICANUS	1	1	3.4	TL					0.1			
	ENCHELYOPUS CIMBRIUS	2	2	3.7	3.2- 4.1 SL	0				0.2	0.0		
	UROPHYCIS CHLUS	19	16	1.6	1.3- 2.0 NL					2.3			
	MERLUCCIIUS BILINEARIS	2	2	2.1	1.8- 2.4 NL	0				0.2	0.0		
	PERCATHOMUS SALTATRIX	2	2	6.9	3.0-10.8 SL					0.2			
	TAUTOGOLABRUS ADSPERSUS	71	65	3.4	2.1- 7.4 TL					8.6			
	PEPILUS TRIACANTHUS	11	10	2.8	1.9- 3.2 SL					1.3			
	PRIENOTUS CARLINUS	2	2	4.3	3.9- 4.7 SL					0.2			
	HIPPOGLOSSINA OBLONGUS	6	6	3.6	2.2- 7.8 SL					0.7			
	SCOPHTHALMUS AQUOSUS	5	5	3.8	3.1- 4.2 SL					0.6			
	ADDITIONAL LARVAE CAUGHT	SYNGNATHICAE											
		SPARIDAE											
		UNIDENTIFIED											
.....													
C 2	67 09	SAMPLING DEPTH 0-15M											
	AREVOORTIA TYRANNUS	1	1	7.7	TL					0.3			
	ENGRAULIS EURYSTOIE	413	22	5.3	2.8- 7.0 TL					125.1			
	LEPIDIUS AMERICANUS	1	1	3.0	TL					0.3			
	ENCHELYOPUS CIMBRIUS	44	42	2.6	1.5- 4.6 SL	0				13.3	0.0		
	MERLUCCIIUS BILINEARIS					1				0.0	0.3		
	METICHTHUS SP.	1	1	3.0	SL					0.3			
	TAUTOGOLABRUS ADSPERSUS	45	45	4.1	2.3- 8.9 TL					13.6			
	PEPILUS TRIACANTHUS	12	12	2.7	1.4- 3.5 SL					3.6			
	SCOPHTHALMUS AQUOSUS	9	8	4.7	2.7- 7.2 SL					2.7			
	ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED											
.....													
C 3	67 08	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-24M							
	AREVOORTIA TYRANNUS	2	2	9.8	9.3-10.3 TL					0.6			
	ENGRAULIS EURYSTOIE	18	15	6.2	5.1- 7.2 TL					5.8			
	ENCHELYOPUS CIMBRIUS	10	9	4.3	2.5- 7.7 SL	0	5	5	3.3	2.2- 4.3 SL	0	0.0	
	UROPHYCIS CHLUS	2	2	1.4	1.4- 1.5 NL					0.6			
	MERLUCCIIUS BILINEARIS	9	9	3.2	2.6- 5.5 NL	0				2.9	0.0		
	PERCATHOMUS SALTATRIX	14	14	3.9	3.4- 5.1 SL					4.5			
	TAUTOGOLABRUS ADSPERSUS	21	21	4.3	3.1- 8.3 TL					6.8			
	PEPILUS TRIACANTHUS	6	6	3.8	2.3- 7.0 SL					1.9			
	ETPERUS MICROSTOMUS	2	2	9.7	7.7-11.7 SL					0.6			
	HIPPOGLOSSINA OBLONGUS	9	9	5.8	2.4- 5.2 SL	2	2	5.9	4.2- 7.5 SL	3.1			
	SCOPHTHALMUS AQUOSUS	3	3	21.5	2.4-35.0 SL					1.0			
	LIMANDA FERRUCINEA	3	3	9.8	7.2-12.0 SL	4	4	8.2	3.9-12.0 SL	1.6			
	ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED											
.....													
C 4	67 08	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M							
	ENGRAULIS EURYSTOIE	11	6	4.3	3.0- 6.3 TL					3.7			
	ENCHELYOPUS CIMBRIUS	5	5	4.2	2.6- 5.9 SL	0				1.7	0.0		
	MERLUCCIIUS BILINEARIS	41	39	3.7	1.7- 6.3 NL	4	1	1	4.7	NL	0	13.7	1.3
	PERCATHOMUS SALTATRIX	4	4	2.4	2.4- 2.5 SL					1.3			
	TAUTOGOLABRUS ADSPERSUS	32	30	3.5	2.3-10.2 TL		1	1	5.0	TL	0	10.7	
	SARCA SARCA					2					0	0.0	0.7
	PEPILUS TRIACANTHUS	12	11	3.6	1.7- 7.5 SL					4.0			
	CITHARICHTHYS ARCTIFRONS	5	5	3.2	1.7- 8.0 SL					1.7			
	ETPERUS MICROSTOMUS	1	1	4.7	SL					0.3			
	HIPPOGLOSSINA OBLONGUS	19	16	3.2	2.1- 6.7 SL					6.3			
	LIMANDA FERRUCINEA					2	2	13.4	13.1-13.7 SL	0.7			
	ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED											
.....													
C 5	67 09	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M							
	UROPHYCIS CHLUS	1	1	1.2	NL					0.3			
	MERLUCCIIUS BILINEARIS					2	3	3	3.5	2.8- 4.8 NL	0	1.0	0.7
	TAUTOGOLABRUS ADSPERSUS	7	6	3.7	2.9- 4.5 TL		3	3	4.6	4.3- 5.0 TL		3.1	
	PEPILUS TRIACANTHUS	1	1	4.3	SL					0.3			
	PRIENOTUS CARLINUS	2	2	3.4	3.2- 3.6 SL					0.7			
	HIPPOGLOSSINA OBLONGUS	1	1	3.0	SL		2	2	9.0	8.3- 9.7 SL		1.0	
	LIMANDA FERRUCINEA						1	1	7.5	SL		0.3	
	ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED				UNIDENTIFIED							
.....													
C 6	67 09	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M							
	ENGRAULIS EURYSTOIE					1	1	7.6	TL		0.3		
	ENCHELYOPUS CIMBRIUS					0	2	2	3.7	3.4- 3.9 SL	0	0.7	0.0
	UROPHYCIS CHLUS	14	12	3.6	1.5-16.1 NL					4.7			
	MERLUCCIIUS BILINEARIS	1	1	3.2	NL	19				0.3	6.3		
	PERCATHOMUS SALTATRIX	1	1	3.0	SL					0.3			
	TAUTOGOLABRUS ADSPERSUS	7	7	3.5	3.1- 4.0 TL		1	1	7.2	TL	0	2.4	
	SARCA SARCA	1	1	3.6	SL	5				0.3	1.7		
	PEPILUS TRIACANTHUS	4	4	2.0	1.5- 2.8 SL					1.3			
	CITHARICHTHYS ARCTIFRONS	1	1	2.5	SL					0.3			
	HIPPOGLOSSINA OBLONGUS	7	5	3.2	2.8- 3.4 SL					2.3			
	LIMANDA FERRUCINEA					1	1	7.3	SL		0.3		
	ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED											

CRUISE DATE		***** LARVAE *****						***** LARVAE *****									
D6610 1966		NUMBER		LENGTHS (MM)		NO.		NUMBER		LENGTHS (MM)		NO.					
STA. 0 M SPECIES ANALYZED		TOTAL MEAS.		MEAN RANGE MEAS.		EGGS		TOTAL MEAS.		MEAN RANGE MEAS.		EGGS		NO. PER 10M			
C 7 C7 08		SAMPLING DEPTH 0-15M						SAMPLING DEPTH 18-33M						LARVAE			
LEPIDIUS AMERICANUS		1	1	5.9				1	1	3.5				0.6			
ENCHELIOPTERUS CIMPRIUS							1	15	15	3.2	2.0- 4.2	SL	0	5.0	0.3		
UROPHYCIS CHUSS		39	13	4.6	1.5- 7.0	NL		102	14	3.9	2.6- 5.6	NL		45.7			
MERLUCCIIUS BILINEARIS							0	7	6	5.2	4.5- 6.0	NL	0	2.3	0.0		
POMATOMUS SALTATRIX		4	3	4.7	3.1- 7.5	SL		3	3	3.0	2.9- 3.1	SL		2.2			
TAUTOGLABRUS ADSPERSUS		2	2	6.2	6.1- 6.4	TL								0.7			
ALXIS SP.		1	1	9.2		SL			1	1	8.8		SL	0.6			
SARPA SARPA		9	9	6.0	4.7- 8.1	SL	1	17	17	5.6	4.3- 8.8	SL	0	8.4	0.3		
PEPRILUS TRIACANTHUS		80	80	4.2	2.5- 9.5	SL		24	24	4.7	2.6- 6.6	SL		32.0			
CITHARICHTHYS ARCTIFRONS		41	25	5.5	3.7- 8.7	SL		14	14	6.3	5.0- 7.6	SL		17.0			
HIPPOGLOSSINA OBLONGUS		7	7	4.7	2.5- 7.5	SL		13	12	3.9	3.0- 5.8	SL		6.4			
GLYPTOCEPHALUS CYNOGLOSSUS								6	5	10.2	8.3-12.7	SL		2.0			
ADDITIONAL LARVAE CAUGHT		OPHICHTHICAE				OPHICHTHICAE				OPHIDIICAE				STROMATEICAE			
		CYCLOTHERAE SP.				OPHIDIICAE				STROMATEICAE							
		OPHIDIICAE															
.....																	
C 8 C7 08		SAMPLING DEPTH 0-15M								SAMPLING DEPTH 18-33M							
LEPIDIUS AMERICANUS		1	1	5.0				12	12	6.4	3.4-11.9	TL		4.3			
ENCHELIOPTERUS CIMPRIUS							0	27	26	3.3	2.1- 4.4	SL	0	9.0	0.0		
UROPHYCIS CHUSS		25	25	4.5	1.2- 7.5	NL		56	11	4.5	2.2- 9.3	NL		26.2			
MERLUCCIIUS BILINEARIS		1	1	4.9		NL	0	87	73	5.4	3.3- 7.3	NL	0	29.3	0.0		
POMATOMUS SALTATRIX		4	4	3.6	3.4- 3.8	SL								1.3			
SARPA SARPA		2	2	6.0	4.1- 7.5	SL	0	1	1	10.8		SL	0	0.9	0.0		
PEPRILUS TRIACANTHUS		43	43	5.1	3.1- 8.5	SL		11	11	4.4	3.2- 5.7	SL		16.6			
CITHARICHTHYS ARCTIFRONS		143	25	6.1	5.0- 8.2	SL		22	22	6.8	5.1-11.2	SL		50.2			
HIPPOGLOSSINA OBLONGUS		5	5	4.8	3.8- 5.8	SL		3	3	5.5	3.6- 5.0	SL		2.5			
GLYPTOCEPHALUS CYNOGLOSSUS								4	4	12.9	5.3-25.9	SL		1.3			
ADDITIONAL LARVAE CAUGHT		OPHICHTHICAE				OPHIDIICAE				STROMATEICAE							
		OPHIDIICAE															
		STROMATEICAE															
.....																	
D 1 C8 08		SAMPLING DEPTH 0- 6M															
ENGRAULIS EURYSTOE		15	9	3.7	1.9- 7.0	TL								1.8			
TAUTOGLABRUS ADSPERSUS		4	2	6.7	6.0- 7.4	TL								0.5			
.....																	
D 2 C8 08		SAMPLING DEPTH 0- 6M															
ENGRAULIS EURYSTOE		15	15	5.1	3.7- 7.0	TL								1.8			
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED															
.....																	
D 3 C8 08		SAMPLING DEPTH 0-15M															
POMATOMUS SALTATRIX		1	1	2.9		SL								0.3			
PEPRILUS TRIACANTHUS		5	5	1.8	1.4- 2.2	SL								1.5			
ETREPOS MICROSTOMUS		1	1	2.5		SL								0.3			
HIPPOGLOSSINA OBLONGUS		5	5	3.1	2.2- 4.3	SL								1.5			
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED															
.....																	
C 4 C8 08		SAMPLING DEPTH 0- 6M															
ENGRAULIS EURYSTOE		2	2	6.8	5.5- 8.1	TL								0.2			
UROPHYCIS CHUSS		1	1	3.5		NL								0.1			
POMATOMUS SALTATRIX		36	26	3.9	2.4- 6.2	SL								4.4			
SARPA SARPA							3							0.0	0.4		
PEPRILUS TRIACANTHUS		5	5	4.6	1.7-11.0	SL								0.6			
CITHARICHTHYS ARCTIFRONS		1	1	2.5		SL								0.1			
HIPPOGLOSSINA OBLONGUS		8	3	4.7	2.8- 6.1	SL								1.0			
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED															
.....																	
C 5 C8 08		SAMPLING DEPTH 0-15M								SAMPLING DEPTH 18-24M							
BREVOORTIA TYFANNUS		1	1	10.6		TL								0.3			
ANCHOA MOPSETUS		12	12	7.7	4.8-11.2	TL								3.9			
LEPIDIUS AMERICANUS		1	1	4.0		TL								0.3			
ENCHELIOPTERUS CIMPRIUS							0	3	3	4.2	3.7- 4.8	SL	0	0.5	0.0		
UROPHYCIS CHUSS		77	23	3.1	1.3- 4.8	NL		5	5	4.6	3.5- 6.6	NL		24.9			
MERLUCCIIUS BILINEARIS		4	4	3.7	2.4- 7.1	NL	6	1	1	3.2		NL	0	1.4	1.9		
POMATOMUS SALTATRIX		549	546	3.5	2.5- 5.1	SL		22	22	3.4	2.8- 4.5	SL		177.4			
TAUTOGLABRUS ADSPERSUS		7	6	6.7	5.1- 8.5	TL		9	9	6.7	7.7-10.0	TL		3.6			
ALXIS SP.		206	184	3.1	2.0- 4.7	SL		2	2	2.9	2.8- 3.1	SL		16.6			
SARPA SARPA		48	44	3.4	2.8- 4.4	SL	159	5	3	4.0	3.5- 4.9	SL	2	15.5	51.4		
PEPRILUS TRIACANTHUS		137	50	3.2	1.5- 7.5	SL		14	14	6.0	2.0- 9.0	SL		44.3			
PRIONOTUS CAROLINUS		1	1	4.7		SL								0.3			
PRIONOTUS EVOLANS		6	6	5.1	4.6- 5.4	SL								1.9			
CITHARICHTHYS ARCTIFRONS		76	25	2.7	1.9- 7.6	SL		4	4	7.1	6.0- 7.7	SL		24.6			
ETREPOS MICROSTOMUS		19	19	3.4	2.1- 5.6	SL								6.1			
HIPPOGLOSSINA OBLONGUS		331	50	3.8	2.4- 5.2	SL		138	50	5.1	3.2- 6.7	SL		123.9			
GLYPTOCEPHALUS CYNOGLOSSUS								1	1	28.2		SL		0.2			
LIMANDA FERRUGINEA								20	19	6.7	6.1-13.9	SL		3.2			
ADDITIONAL LARVAE CAUGHT		STROMATEICAE				STROMATEICAE				STROMATEICAE							
		UNIDENTIFIED															

TABLE 3. (continued)

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CRUISE DATE D6610 1966 STA. NM SPECIES ANALYZED	***** LARVAE *****					***** LARVAE *****					NO. PER 10M EGGS	
	NUMBER	MEAS.	MEAN	RANGE	MEAS.	NUMBER	MEAS.	MEAN	RANGE	MEAS.		
D 6 (E CR	TOTAL MEAS.	SAMPLING DEPTH	0-15M		EGGS	TOTAL MEAS.	SAMPLING DEPTH	16-33M		EGGS		
ENCRAULIS EURYSTOLE	7	7	6.7	5.8- 7.7	TL						2.3	
LEPHEUS AMERICANUS	3	3	5.4	4.8- 6.3	TL						1.0	
UROPHYCIS CHUSS	26	10	3.6	2.0- 5.1	NL	7	7	2.9	1.5- 3.7	NL	10.1	
MERLUCCIIUS BILINEARIS	7	6	5.8	4.5- 6.5	NL						2.3	
PEMATOMUS SALTATRIX	77	77	3.3	2.2- 5.6	SL	2	2	4.3	4.3- 4.4	SL	25.7	
TAUTOGLAERUS ADSPERSUS	30	20	4.5	3.3- 9.0	TL	1	1	3.4		TL	10.0	
AUXIS SP.	1	1	5.8		SL						0.3	
SARCA SARCA	12	12	4.7	3.1- 6.4	SL						4.0	
PEPRILUS TRIACANTHUS	5	5	3.8	2.5- 6.2	SL						1.7	
PRIONOTUS CAROLINUS	2	2	5.3	4.9- 5.7	SL						0.7	
PRIONOTUS EVOLANS	1	1	6.7		SL	1	1	6.3		SL	0.6	
CITHARICHTHYS ARCTIFRONS	5	5	5.9	2.6-10.1	SL	1	1	5.2		SL	1.8	
HIPPEDGLOSSINA DBLINCUS	10	10	5.1	3.2- 6.5	SL	3	2	5.5	4.5- 6.4	SL	4.0	
GLYPTOCEPHALUS CYNODGLOSSUS						3	3	17.6	16.4-19.7	SL	1.0	
LIMANDA FERRUGINEA						11	11	10.5	8.6-12.4	SL	3.7	
ADDITIONAL LARVAE CAUGHT						UNIDENTIFIED						
.....												
E 7 (07 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 16-33M						
LEPHEUS AMERICANUS	5	5	6.2	4.4- 8.9	TL						1.7	
ENCRAULIS EURYSTOLE	1	1	2.9		SL						0.3	
UROPHYCIS CHUSS	74	21	3.4	1.8- 4.4	NL	7	5	3.3	2.2- 4.6	NL	24.7	
MERLUCCIIUS BILINEARIS	21	20	6.0	4.5-13.5	NL	0	6	6	12.2	6.4-17.6	NL	8.3
PEMATOMUS SALTATRIX	114	51	4.1	2.8- 5.8	SL	4	4	3.7	3.3- 4.6	SL	28.0	
TAUTOGLAERUS ADSPERSUS	26	26	4.9	3.4- 9.0	TL						8.7	
SARCA SARCA	4	4	6.6	3.8-10.2	SL	0	1	1	4.1		1.5	
PEPRILUS TRIACANTHUS	15	15	4.3	1.7- 7.0	SL						5.0	
CITHARICHTHYS ARCTIFRONS	21	19	4.5	3.3- 6.7	SL	4	4	5.5	5.2- 5.8	SL	7.6	
ETROPUS MICROSTOMUS	1	1	3.2		SL	1					0.6	
HIPPEDGLOSSINA DBLINCUS	6	6	4.9	3.1- 6.2	SL	1	1	3.7		SL	2.1	
GLYPTOCEPHALUS CYNODGLOSSUS						1	1	12.7		SL	0.3	
LIMANDA FERRUGINEA	5	5	12.5	10.1-14.7	SL	30	30	11.0	7.2-16.7	SL	11.5	
ADDITIONAL LARVAE CAUGHT						STROMATEIDAE UNIDENTIFIED						
.....												
E 8 (17 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 16-33M						
PISCODONOTUS CRUENTIFER	1	1	27.2		TL						0.3	
MYCTOPHIDAE						1	1	5.5		SL	0.3	
CERATOSCOPUS MADERENSIS	2	2	15.5	14.9-16.1	SL						0.7	
LEPHEUS AMERICANUS	1	1	13.5		TL	4	4	6.7	5.6- 8.4	TL	1.6	
ENCRAULIS EURYSTOLE						1	1	4.2		SL	0.3	
UROPHYCIS CHUSS	106	16	3.8	1.6- 6.1	NL	7	5	4.3	3.7- 4.9	NL	35.3	
MERLUCCIIUS BILINEARIS	1	1	3.6		NL	0	64	61	10.2	6.0-15.5	NL	21.6
TAUTOGLAERUS ADSPERSUS	1	1	11.1		TL						0.3	
AUXIS SP.	51	45	4.6	2.6- 8.4	SL	2	2	6.2	6.1- 6.3	SL	17.0	
SARCA SARCA	14	14	6.9	3.5- 8.8	SL						4.7	
PEPRILUS TRIACANTHUS	27	26	4.7	1.7- 9.0	SL	11	11	6.9	5.5- 9.3	SL	11.8	
CITHARICHTHYS ARCTIFRONS	115	25	5.2	2.7- 9.3	SL	313	25	6.2	4.7- 8.7	SL	138.8	
MENCLONE SESSILICAUDA	1	1	11.8		SL						0.3	
HIPPEDGLOSSINA DBLINCUS	40	38	5.2	2.5- 7.7	SL	9	8	5.8	4.7- 7.0	SL	15.0	
SCOPHTHALMUS AQUOSUS	3	3	2.7	2.6- 2.7	SL						1.0	
GLYPTOCEPHALUS CYNODGLOSSUS						21	21	16.2	11.3-31.5	SL	7.0	
LIMANDA FERRUGINEA						17	17	10.6	7.3-13.8	SL	5.7	
ADDITIONAL LARVAE CAUGHT						OPHIIDAE CARAPIDAE BLENNIDAE						
.....												
E 1 (08 08	SAMPLING DEPTH 0- 6M					SAMPLING DEPTH 16-33M						
ANCHERA WITCHILLI	2	1	6.5		TL						0.2	
ADDITIONAL LARVAE CAUGHT						SYNGNATHIDAE						
.....												
E 2 (08 08	SAMPLING DEPTH 0- 6M					SAMPLING DEPTH 16-33M						
.....												
E 3 (09 09	SAMPLING DEPTH 0- 6M					SAMPLING DEPTH 16-33M						
ENCRAULIS EURYSTOLE	2	2	9.1	8.8- 9.5	TL						0.2	
PEMATOMUS SALTATRIX	1	1	3.1		SL						0.1	
PEPRILUS TRIACANTHUS	1	1	4.7		SL						0.1	
.....												
E 4 (09 09	SAMPLING DEPTH 0- 6M					SAMPLING DEPTH 16-33M						
ENCRAULIS EURYSTOLE	12	11	7.0	5.6- 8.4	TL						1.5	
PEPRILUS TRIACANTHUS	29	29	3.4	1.0- 6.6	SL						3.5	

CRUISE DATE		***** LARVAE *****					***** LARVAE *****					NO. PER 10M ²	
06610 1966		NUMBER LENGTHS (MM) NO.					NUMBER LENGTHS (MM) NO.					LA FVAE EGGS	
STA.	D M	SPECIES ANALYZED		TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS
E 5	09 03			SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-24M				
		ENGRAULIS EURYSTOE		2	2	6.1	5.6- 6.6	TL	8	8	5.8	3.7- 7.0	TL
		PEMATOMUS SAL TATRIX		95	95	4.2	2.9- 6.7	SL	11	11	4.0	3.6- 4.8	SL
		ALXIS SP.		2	2	3.6	3.0- 4.3	SL					
		PEPRILUS TRIACANTHUS		5	5	4.7	3.3- 7.0	SL	28	2E	4.7	2.6- 8.0	SL
		PRIONOTUS EVOLANS		1	1	5.5		SL					
		CITHARICHTHYS ARCTIFRONS		1	1	5.2		SL	15	15	6.8	3.3- 9.1	SL
		ETRCPUUS MICROSTOMUS							10	10	7.1	4.6- 10.3	SL
		HIPPOGLOSSINA OBLONGUS							21	20	5.2	4.2- 6.7	SL
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED							STROMATEIDAE				
E 6	09 08			SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M				
		ENGRAULIS EURYSTOE		2	2	4.8	4.3- 5.3	TL	3	2	7.7	4.7- 10.7	TL
		LECEPIUS AMERICANUS							1	1	5.7		TL
		UROPHYCIS CHUSS		17	17	4.3	2.3- 9.0	NL	21	5	4.6	2.9- 6.7	NL
		MERLUCCIIUS BILINEARIS		1	1	5.3		NL	3	3	6.0	5.8- 6.2	NL
		PEMATOMUS SAL TATRIX		59	59	4.3	2.9- 7.2	SL	12	12	5.5	4.0- 6.7	SL
		TAUTOGLOLABRUS ADSPERSUS		3	3	5.7	5.4- 6.0	TL	4	4	7.1	6.0- 6.2	TL
		ALXIS SP.		20	20	4.4	3.4- 5.2	SL					
		SARCA SARDA		1	1	7.0		SL					
		PEPRILUS TRIACANTHUS		8	8	5.4	2.7- 7.0	SL	5	5	7.3	6.8- 8.0	SL
		CITHARICHTHYS ARCTIFRONS		38	37	5.1	3.2- 7.7	SL	163	25	4.5	3.2- 7.9	SL
		ETRCPUUS MICROSTOMUS		1					2	2	5.4	5.4- 5.4	SL
		HIPPOGLOSSINA OBLONGUS		13	12	4.3	2.8- 6.1	SL	30	27	5.0	3.5- 8.5	SL
		GLYPTOCEPHALUS CYNOGLOSSUS							1	1	15.4		SL
		LIMANDA FERRUCINEA							5	5	8.1	6.5- 10.0	SL
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED							OPHIOTRIDAE				
E 7	09 09			SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M				
		UROPHYCIS CHUSS		13	10	3.9	2.9- 8.0	NL	4	4	3.5	2.7- 5.3	NL
		MERLUCCIIUS BILINEARIS		2	2	3.3	2.9- 3.7	NL	5	5	5.5	4.2- 7.2	NL
		PEMATOMUS SAL TATRIX		209	209	3.8	2.7- 5.4	SL	21	21	3.9	2.9- 5.5	SL
		ALXIS SP.		10	9	3.5	2.7- 4.5	SL	3	3	4.0	3.8- 4.3	SL
		SARCA SARDA		1	1	3.3		SL	1	1	3.5		SL
		PEPRILUS TRIACANTHUS		10	10	5.2	3.5- 6.5	SL	6	6	6.1	5.6- 7.2	SL
		CITHARICHTHYS ARCTIFRONS		23	21	3.8	2.4- 5.5	SL	33	32	5.0	2.2- 5.8	SL
		HIPPOGLOSSINA OBLONGUS		20	20	3.4	2.6- 4.5	SL	25	23	5.0	2.9- 6.7	SL
		GLYPTOCEPHALUS CYNOGLOSSUS							3	3	17.7	14.7- 20.4	SL
		ADDITIONAL LARVAE CAUGHT							OPHIOTRIDAE				
E 8	09 09			SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M				
		LECEPIUS AMERICANUS							1	1	14.3		TL
		UROPHYCIS CHUSS		23	19	2.2	1.2- 4.0	NL	4	3	5.3	3.0- 6.7	NL
		ALXIS SP.		81	79	5.6	2.8- 10.5	SL	2	2	5.3	4.1- 6.5	SL
		SARCA SARCA		2	2	7.6	7.1- 8.1	SL	1	1	10.2		SL
		PEPRILUS TRIACANTHUS		3	3	4.0	3.0- 5.9	SL	8	8	12.8	7.4- 24.7	SL
		CITHARICHTHYS ARCTIFRONS		49	25	3.3	2.0- 5.4	SL	5	5	4.8	3.9- 6.6	SL
		HIPPOGLOSSINA OBLONGUS		37	34	3.0	1.8- 4.4	SL	6	6	4.2	3.0- 7.6	SL
		ADDITIONAL LARVAE CAUGHT							OPHIOTRIDAE				
									MYCTOPHIDAE				
									UNIDENTIFIED				
F 1	10 08			SAMPLING DEPTH 0-6M									
		ANCHOA MITCHILLI		29	29	3.8	2.0- 13.3	TL					
		ADDITIONAL LARVAE CAUGHT											
F 2	10 08			SAMPLING DEPTH 0-6M									
		ANCHOA MITCHILLI		11	11	4.3	2.5- 11.1	TL					
		PEPRILUS TRIACANTHUS		1	1	2.2		SL					
		HIPPOGLOSSINA OBLONGUS		1	1	1.9		SL					
		ADDITIONAL LARVAE CAUGHT											
F 3	10 08			SAMPLING DEPTH 0-15M									
		PEPRILUS TRIACANTHUS		1	1	16.8		SL					
		HIPPOGLOSSINA OBLONGUS		1	1	6.2		SL					
		ADDITIONAL LARVAE CAUGHT											
F 4	10 08			SAMPLING DEPTH 0-15M									
		ENGRAULIS EURYSTOE		4	2	7.0	3.5- 10.5	TL					
		TAUTOGLOLABRUS ADSPERSUS		1	1	2.7		TL					
		PEPRILUS TRIACANTHUS		9	9	10.0	1.8- 16.4	SL					
		PEPCOTUS CARLINUS		3	3	2.3	2.0- 2.8	SL					
		HIPPOGLOSSINA OBLONGUS		2	2	4.1	2.3- 5.8	SL					

TABLE 3. (continued)

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CRUISE DATE		***** LARVAE *****					***** LARVAE *****						
06610 1966		NUMBER		LENGTHS (MM)		NO.		NUMBER		LENGTHS (MM)		NO.	
STA.	O.M.	SPECIES ANALYZED		TOTAL MEAS.	MEAN RANGE MEAS.	NO. EGGS	TOTAL MEAS.	MEAN RANGE MEAS.	NO. EGGS	TOTAL MEAS.	MEAN RANGE MEAS.	NO. LARVAE	PER 10M EGGS
F 5	C9 OR			SAMPLING DEPTH	0-15M		SAMPLING DEPTH	18-24M					
		ENGRAULIS EURYSTOIE		14	12 7.8 4.0-10.3 TL		4	3 6.0 5.1- 6.8 TL				4.9	
		UROPHYCIS CHLUS		4	3 5.7 3.7- 7.3 NL		3	2 7.6 6.8- 8.5 NL				1.7	
		CENTROPOMUS STRIATA		3	3 3.6 2.8- 4.5 SL		1	1 3.7				1.1	
		PEMATOMUS SALIATRI		37	37 4.3 2.4- 5.5 SL		1	1 3.1				12.0	
		ALXIS SP.		2	2 4.1 2.8- 5.5 SL							0.6	
		SARCA SARCA		2	2 4.8 4.7- 5.0 SL	0				0		0.6	0.0
		PEPILUS TRIACANTHUS		22	22 3.8 2.0- 7.0 SL		5	5 3.7 2.5- 7.1 SL				7.6	
		PRICNOTUS CARLINUS		3	3 3.7 2.6- 5.4 SL		2	2 2.8 2.8- 2.9 SL				1.3	
		CITHARICHTHYS ARCTIFRONS		2	2 3.9 2.7- 5.0 SL		5	5 5.2 3.1- 7.8 SL				1.4	
		ETREPIUS MICROSTOMUS		1	1 4.5							0.3	
		HIPPOGLOSSINA OBLONGUS		8	8 5.1 2.9- 8.4 SL		1	1 6.7				2.6	
		GLYPTOCEPHALUS CYNOGLOSSUS					1	1 14.2				0.2	
		ADDITIONAL LARVAE CAUGHT		STROMATEIDAE									
				UNIDENTIFIED									
.....													
F 6	C9 OR			SAMPLING DEPTH	0-15M		SAMPLING DEPTH	18-33M					
		ENGRAULIS EURYSTOIE		112	29 6.4 2.4-10.5 TL		11	11 9.3 7.7-12.8 TL				37.3	
		UROPHYCIS CHLUS		21	17 3.8 2.6- 7.0 NL		2	2 4.1 3.1- 5.2 NL				7.0	
		MERLUCCIIUS BILINEARIS		1	1 6.0		2	2 7.0 6.5- 7.2 NL	0			1.0	0.0
		PEMATOMUS SALIATRI		240	233 4.5 3.6- 8.1 SL	0	16	16 4.7 3.0- 8.0 SL				60.0	
		TALITOGOLABRUS ADSPERSUS		7	7 5.4 4.2- 7.2 TL		1	1 6.4				2.4	
		ALXIS SP.		28	28 4.9 3.7- 6.4 SL		3	3 4.8 3.9- 5.4 SL				9.4	
		PEPILUS TRIACANTHUS		225	53 3.6 1.9- 7.1 SL		5	3 3.5 2.9- 4.0 SL				75.0	
		CITHARICHTHYS ARCTIFRONS		28	27 4.6 2.4-11.1 SL		6	6 4.8 3.1- 6.4 SL				10.4	
		ETREPIUS MICROSTOMUS		1	1 8.7							0.3	
		HIPPOGLOSSINA OBLONGUS		14	13 4.0 3.4- 5.2 SL		1	1 5.5				4.7	
		GLYPTOCEPHALUS CYNOGLOSSUS					1	1 17.9				0.3	
		LIMANDA FERRUGINEA					1	1 13.3				0.3	
		ADDITIONAL LARVAE CAUGHT		OPHIIDAE									
				OPHIIDAE									
				STROMATEIDAE									
.....													
F 7	C9 OR			SAMPLING DEPTH	0-15M		SAMPLING DEPTH	18-33M					
		PRICNOTUS CARLINUS		1	1 26.3							0.3	
		UROPHYCIS CHLUS		1	1 12.1							0.3	
		MERLUCCIIUS BILINEARIS		18	17 4.8 1.6-14.1 NL		2	2 7.3 6.6- 8.1 NL	0			6.1	0.0
		PEMATOMUS SALIATRI		7	7 7.5 5.5-10.1 NL	0						2.3	
		TALITOGOLABRUS ADSPERSUS		11	11 6.1 4.0- 9.3 SL		1	1 4.4				3.7	
		ALXIS SP.		5	4 8.3 6.2-10.0 TL							1.7	
		SARCA SARCA		105	57 3.9 2.5- 8.5 SL	0	3	3 3.5 3.3- 4.5 SL	0			35.0	0.0
		PEPILUS TRIACANTHUS		2	2 8.8 8.7- 9.0 SL							0.7	
		CITHARICHTHYS ARCTIFRONS		72	10 2.9 1.8- 4.5 SL		3	3 3.6 3.2- 4.3 SL				24.0	
		HIPPOGLOSSINA OBLONGUS		271	25 4.8 2.9- 9.6 SL		4	4 5.1 3.2- 7.2 SL				50.3	
		GLYPTOCEPHALUS CYNOGLOSSUS		26	26 4.4 2.2- 7.7 SL		2	2 3.2 2.8- 3.5 SL				8.7	
		LIMANDA FERRUGINEA					4	4 26.2 9.2-26.1 SL				1.3	
		ADDITIONAL LARVAE CAUGHT		OPHIIDAE			6	6 10.5 9.0-12.7 SL				3.5	
				OPHIIDAE									
				STROMATEIDAE									
.....													
C 1	21 OR			SAMPLING DEPTH	0- 6M								
.....													
C 2	21 OR			SAMPLING DEPTH	0- 6M								
		ENGRAULIS EURYSTOIE		9	6 2.8 2.1- 4.2 TL							1.1	
		ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED									
.....													
G 3	21 OR			SAMPLING DEPTH	0-15M		SAMPLING DEPTH	18-24M					
		PEPILUS TRIACANTHUS					1	1 14.2				0.2	
.....													
G 4	21 OR			SAMPLING DEPTH	0-15M		SAMPLING DEPTH	18-24M					
		ENGRAULIS EURYSTOIE		88	72 6.2 2.0-16.9 TL							28.4	
		UROPHYCIS CHLUS		1	1 5.3							0.3	
		CENTROPOMUS STRIATA		14	11 4.7 3.6- 7.1 NL		1	1 4.5				4.5	
		ALXIS SP.		17	17 3.6 2.3- 5.1 SL							5.5	
		PEPILUS TRIACANTHUS		1	1 9.5							0.3	
		PRICNOTUS CARLINUS		53	51 3.8 2.1- 8.5 SL		1	1 3.0				17.1	
		CITHARICHTHYS ARCTIFRONS		180	33 4.1 2.9- 5.5 SL		5	5 4.9 3.3- 5.9 SL				58.2	
		HIPPOGLOSSINA OBLONGUS		18	16 7.5 6.2-10.0 SL		107	25 8.6 6.3-11.5 SL				22.8	
		ETREPIUS MICROSTOMUS		28	25 6.4 2.8-11.6 SL		1	1 10.3				9.0	
		LIMANDA FERRUGINEA		8	8 5.4 3.1- 6.7 SL		7	7 7.0 4.8- 8.5 SL				3.6	
		SYMPHURUS SP.		1	1 9.1							0.3	
		ADDITIONAL LARVAE CAUGHT		OPHIIDAE								1.0	
				URANOSCOPIDAE									

TABLE 3. (continued)

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CRUISE DATE		***** LARVAE *****					***** LARVAE *****					NO. PER 10M	
STA. 0 M		NUMBER	LENGTHS (MM)		NO.	NUMBER	LENGTHS (MM)		NO.	NO.	PER	10M	
SPECIES ANALYZED		TOTAL MEAS.	MEAN	RANGE	EGGS	TOTAL MEAS.	MEAN	RANGE	EGGS	LARVAE	EGGS	EGGS	
G 5	21 08	SAMPLING DEPTH 0-15M	0-15M			SAMPLING DEPTH 18-33M	18-33M						
ENGRAULIS EURYSTOMIE		140	48	5.5	2.6- 8.5 TL							46.7	
URPHYCHIS CHLSS		1	1	5.8	NL	1	1	14.1	NL	0		0.6	
MEPLOCIDUS BILINFAPIS		1	1	3.6	NL							0.3	
CENTROPRIETIS STRIATA		7	7	4.0	3.1- 5.5 SL							2.3	
CYNOSCION SP.		2	2	3.5	3.5- 3.5 SL							0.7	
MEFATICIRPHUS SP.		5	5	3.7	3.5- 4.1 SL							1.7	
PEPRILUS TRIACANTHUS		68	65	4.9	1.5-19.2 SL	2	2	4.7	3.0- 6.5 SL			22.7	
PRIONOTUS CARLINUS		188	24	4.3	2.7- 5.7 SL							62.7	
PRIONOTUS EVOLANS		4	4	5.5	4.8- 6.3 SL							1.3	
CITHARICHTHYS ARCTIFRONS		86	25	6.7	4.3- 8.7 SL	85	25	8.6	5.3-14.7 SL			54.1	
ETREPOS MICROSTOMUS		39	39	5.7	2.3- 9.2 SL	1	1	6.1	SL			13.0	
HIPPOGLOSSINA OBLIANGUS						1	1	5.6	SL			0.3	
GLYPTOCEPHALUS CYNOGLOSSUS						2	2	27.4	25.4-29.4 SL			0.7	
LIMNADA FERRUGINEA						2	2	13.1	12.1-14.1 SL			0.7	
SYMPHURUS SP.		2	2	5.8	5.5- 6.0 SL							0.7	
ADDITIONAL LARVAE CAUGHT		OPHIOTIDAE					OPHIOTIDAE						
.....													
C 6	21 08	SAMPLING DEPTH 0-15M	0-15M			SAMPLING DEPTH 18-33M	18-33M						
ENGRAULIS EURYSTOMIE		4	4	12.9	5.6-20.1 TL	5	5	20.1	19.5-21.2 TL			2.9	
LOCEPUS AMERICANUS						1	1	6.4	TL			0.3	
URPHYCHIS CHLSS		64	19	4.4	1.7-10.8 NL	28	10	3.5	2.5- 4.1 NL			28.5	
AUXIS SP.		3	3	9.9	5.6-12.2 SL							1.0	
PEPRILUS TRIACANTHUS		16	13	5.2	2.6- 7.2 SL	6	6	5.3	3.5- 8.3 SL			6.8	
PRIONOTUS CARLINUS		2	2	5.3	3.9- 6.8 SL							0.7	
CITHARICHTHYS ARCTIFRONS		70	25	5.6	3.6- 9.7 SL	21	19	9.1	4.0-14.2 SL			28.0	
ETREPOS MICROSTOMUS		1	1	5.6	SL							0.3	
HIPPOGLOSSINA OBLIANGUS		17	17	5.5	3.1- 8.8 SL	5	5	6.6	5.0- 7.9 SL			6.8	
ADDITIONAL LARVAE CAUGHT		OPHIOTIDAE					OPHIOTIDAE						
.....													
H 1	22 08	SAMPLING DEPTH 0-3M	0-3M										
ENGRAULIS EURYSTOMIE		7	2	6.6	6.6- 6.7 TL							0.4	
ETREPOS MICROSTOMUS		4	2	6.2	5.0- 7.3 SL							0.2	
SYMPHURUS SP.		1	1	4.4	SL							0.1	
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED											
.....													
F 2	22 08	SAMPLING DEPTH 0-15M	0-15M										
ENGRAULIS EURYSTOMIE		3	3	9.0	5.8-13.1 TL							0.9	
PRIONOTUS CARLINUS		15	15	2.6	1.5- 4.2 SL							4.5	
SCOPHTHALMUS AQUOSUS		1	1	2.1	SL							0.3	
SYMPHURUS SP.		2	2	2.9	2.9- 2.9 SL							0.6	
ADDITIONAL LARVAE CAUGHT		CALLIONYMIDAE											
		STROMATEIDAE											
		UNIDENTIFIED											
.....													
H 3	22 08	SAMPLING DEPTH 0-6M	0-6M										
ENGRAULIS EURYSTOMIE		28	22	4.6	3.0- 7.4 TL							3.4	
PEPRILUS TRIACANTHUS		3	3	6.0	3.9-10.0 SL							0.4	
PRIONOTUS CARLINUS		5	5	3.1	2.5- 3.9 SL							0.6	
ETREPOS MICROSTOMUS		7	7	7.3	2.6-10.3 SL							0.8	
SYMPHURUS SP.		4	4	3.0	2.9- 3.1 SL							0.5	
ADDITIONAL LARVAE CAUGHT		OPHIOTIDAE											
.....													
F 4	22 08	SAMPLING DEPTH 0-15M	0-15M										
ENGRAULIS EURYSTOMIE		134	69	6.8	4.0-16.0 TL							40.6	
CENTROPRIETIS STRIATA		24	24	5.9	3.2-10.6 SL							7.3	
POMATOMUS SALTATRIX		7	7	5.2	3.3- 6.9 SL							2.1	
AUXIS SP.		21	19	5.6	4.1- 9.9 SL							6.4	
PEPRILUS TRIACANTHUS		110	49	4.6	2.5-25.0 SL							33.3	
PRIONOTUS CARLINUS		69	33	4.8	2.9- 8.7 SL							20.9	
PRIONOTUS EVOLANS		2	2	5.5	5.1- 5.9 SL							0.6	
CITHARICHTHYS ARCTIFRONS		93	25	5.3	3.1- 8.1 SL							28.2	
ETREPOS MICROSTOMUS		399	25	5.8	3.3- 9.2 SL							120.9	
HIPPOGLOSSINA OBLIANGUS		4	4	4.9	3.8- 6.7 SL							1.2	
SCOPHTHALMUS AQUOSUS		1	1	3.3	SL							0.3	
ADDITIONAL LARVAE CAUGHT		OPHIOTIDAE											
		SYNGNATHIDAE											
		URANOSCOPIDAE											
		BLENNIIDAE											
		STROMATEIDAE											
		UNIDENTIFIED											

TABLE 3. (continued)

CRUISE DATE	***** LARVAE *****					***** LARVAE *****					2
06610 1966	NUMBER	LENGTHS (MM)		NO.		NUMBER	LENGTHS (MM)		NO.		
STA. D M SPECIES ANALYZED	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	
J 5 22 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
PISCODONOPHIS CRUENTIFER	1	1	79.0		TL					0.3	
ENGRAULIS EURYSTOLE	62	35	7.5	3.7-10.2	TL					18.8	
UROPHYCIS CHUSS	2	2	16.1	15.1-17.2	NL					0.6	
CENTROPOMISTIS STRIATA	8	8	6.5	4.2-10.7	SL					2.4	
MICROPOGON UNDULATUS	1	1	3.2		SL					0.3	
AUXIS SP.	1	1	6.1		SL					0.3	
PEPRILUS TRIACANTHUS	14	14	8.9	2.3-23.1	SL					4.2	
PRIONOTUS CAROLINUS	5	5	7.2	3.7- 8.9	SL					1.5	
CITHARICHTHYS ARCTIFRONS	12	11	7.1	5.1-11.1	SL					3.6	
ETROPLUS MICROSTOMUS	341	25	4.6	2.8-10.6	SL					133.3	
SYMPHURUS SP.	1	1	4.0		SL					0.3	
ADDITIONAL LARVAE CAUGHT					CPHIDIIDAE						
					STROMATEIDAE						
					TETRAODONTIDAE						
.....											
J 6 23 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
PISCODONOPHIS CRUENTIFER	2	2	44.3	39.7-49.0	TL					0.7	
ENGRAULIS EURYSTOLE	70	42	10.2	5.0-27.5	TL	2	2	8.6	6.9-10.3	TL	23.3
LCRPHIUS AMERICANUS	2	2	6.5	5.7- 7.4	TL					0.7	
UROPHYCIS CHUSS	5	5	13.4	11.6-15.5	NL	2	2	7.4	4.7-10.2	NL	2.2
CENTROPOMISTIS STRIATA	1	1	9.4		SL					0.3	
PCMATOMUS SALIATRIX	1	1	7.6		SL					0.3	
AUXIS SP.	1	1	15.7		SL					0.3	
PEPRILUS TRIACANTHUS	9	9	4.4	2.6- 6.5	SL					3.0	
PRIONOTUS CAROLINUS	6	5	8.4	7.3- 9.6	SL	2	1	8.0		SL	2.5
CITHARICHTHYS ARCTIFRONS	86	25	7.4	5.1-13.2	SL	3	3	10.5	5.8-13.7	SL	28.7
ETROPLUS MICROSTOMUS	107	25	6.1	3.3-11.6	SL	8	8	6.4	3.4-11.0	SL	35.7
HIPPOGLOSSINA OBLONGUS	11	11	7.6	4.0-13.3	SL	3	3	9.8	8.3-10.6	SL	4.3
GLYPTOCEPHALUS CYNOGLOSSUS	1	1	27.1		SL	1	1	34.7		SL	0.6
SYMPHURUS SP.	1	1	8.3		SL						0.3
ADDITIONAL LARVAE CAUGHT					OPHIDIIDAE	OPHIDIIDAE					
					URANOSCOPIDAE	TRIGLIDAE					
.....											
J 7 23 08	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
PISCODONOPHIS CRUENTIFER	6	6	45.8	32.0-67.5	TL	1	1	49.5		TL	2.1
LCRPHIUS AMERICANUS						5	5	5.6	3.8- 7.3	TL	1.7
UROPHYCIS SP.						236	22	4.1	2.2- 5.6	NL	78.7
UROPHYCIS CHUSS						1	1	3.2		NL	0.3
MERLUCCIIUS BILINEARIS						1	1	5.7		NL	0.3
TAUTOGLOMERUS ADSPERSUS						1	1	10.0		TL	0.3
AUXIS SP.	17	16	7.4	5.0-10.3	SL						5.7
PEPRILUS TRIACANTHUS	9	9	6.9	6.5- 8.5	SL	209	50	5.4	3.3- 8.0	SL	72.4
CITHARICHTHYS ARCTIFRONS	2					300	25	7.7	3.9-14.1	SL	100.6
ETROPLUS MICROSTOMUS	1	1	5.0		SL	32	32	6.4	3.7-10.5	SL	11.0
HIPPOGLOSSINA OBLONGUS	6	6	3.0	2.7- 3.2	SL	92	50	5.7	4.1- 7.2	SL	22.5
GLYPTOCEPHALUS CYNOGLOSSUS						1	1	17.9		SL	0.3
LEIMANDA FERRUGINEA						2	2	11.6	10.4-12.7	SL	0.7
ADDITIONAL LARVAE CAUGHT					PISCODONOPHIS CRUENTIFER	PISCODONOPHIS CRUENTIFER					
					UNIDENTIFIED	OPHIDIIDAE					
						STROMATEIDAE					
						UNIDENTIFIED					
.....											
K 1 24 08	SAMPLING DEPTH 0- 6M										
ANCHOA MESPETUS	4	4	6.7	3.4- 8.7	TL					0.5	
MICROPOGON UNDULATUS	6	6	4.3	3.2- 4.5	SL					0.7	
PRIONOTUS CAROLINUS	2	2	3.6	3.3- 4.0	SL					0.2	
SYMPHURUS SP.	2	2	3.0	2.5- 3.4	SL					0.2	
ADDITIONAL LARVAE CAUGHT					CPHIDIIDAE						
					GOBIIDAE						
					UNIDENTIFIED						
.....											
K 2 24 08	SAMPLING DEPTH 0- 6M										
ANCHOA MESPETUS	7	7	10.7	3.6-21.0	TL					0.8	
MICROPOGON UNDULATUS	12	12	5.3	4.8- 5.8	SL					1.5	
AUXIS SP.	1	1	6.1		SL					0.1	
PEPRILUS TRIACANTHUS	2	2	3.5	3.5- 3.5	SL					0.2	
PRIONOTUS CAROLINUS	4	4	3.6	2.3- 5.0	SL					0.5	
CITHARICHTHYS ARCTIFRONS	1	1	4.2		SL					0.1	
SYMPHURUS SP.	5	3	8.7	4.1-11.1	SL					0.6	
ADDITIONAL LARVAE CAUGHT					CPHIDIIDAE						
					URANOSCOPIDAE						
					UNIDENTIFIED						

TABLE 3. (continued)

CRUISE DATE	***** LARVAE *****	***** LARVAE *****	2
STA. NO. M. SPECIES ANALYZED	NUMBER LENGTHS (MM) NO. MEAS. EGGS	NUMBER LENGTHS (MM) NO. MEAS. EGGS	NO. PER 10M LARVAE
K 3 24 08	SAMPLING DEPTH 0-15M		
PAGFAULIS EURYSTOIE	25 24 6.7 2.7-18.1 TL		7.6
UROPHYCIS SP.	1 1 4.4 NL		0.3
CENTROPRISTIS STRIATA	2 2 4.6 3.2- 6.1 SL		0.6
MICROPYGMA UNCLATUS	4 4 4.7 4.2- 5.3 SL		1.2
PEPRILUS TRIACANTHUS	1 1 4.9 SL		0.3
ETREPOS MICROSTOMUS	44 25 3.5 2.2-11.8 SL		13.3
SYMPHURUS SP.	9 9 4.6 2.8- 6.8 SL		2.7
ADDITIONAL LARVAE CAUGHT	SYNGONOTIDAE OPHIIDIIDAE SERRANICAE GRAMMISTICAE GOBIIDAE UNIDENTIFIED		
K 4 23 08	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 18-24M	
PISCODONOPHIS CRUENTIFER	4 4 52.6 39.8-63.5 TL		1.3
ENGFAULIS EURYSTOIE	18 16 9.7 4.0-24.1 TL		5.8
LOPHIUS AMERICANUS		1 1 24.5 TL	0.2
CENTROPRISTIS STRIATA	1	2 2 11.4 11.0-11.8 SL	0.6
PEMATOMUS SALIATRIK	1 1 6.6 SL		0.3
MICROPYGMA UNCLATUS	1 1 4.3 SL		0.3
PEPRILUS TRIACANTHUS	1 1 3.4 SL	5 5 8.5 6.1-12.9 SL	1.1
PEPINOTUS CARLINUS	1 1 4.0 SL		0.3
CITHARICHTHYS ARCTIFRONS	2 2 7.5 6.2- 8.7 SL	3 3 10.8 8.6-12.5 SL	1.1
ETREPOS MICROSTOMUS	80 25 4.5 2.3- 8.3 SL	12 12 10.6 3.7-12.7 SL	26.5
HIPPUGLOSSINA OBLONGUS		3 2 7.4 6.7- 8.0 SL	0.5
SYMPHURUS SP.	2 2 4.8 4.2- 5.4 SL		0.6
ADDITIONAL LARVAE CAUGHT	PISCODONOPHIS CRUENTIFER SYNGONOTICAE LOPHIIFORMES OPHIIDIIDAE URANOSCOPICAE STROMATEIDAE	OPHIIDIIDAE	
K 5 23 08	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 18-24M	
CITHARICHTHYS OCELLATUS	1 1 61.0 TL		0.3
PISCODONOPHIS CRUENTIFER	1 1 61.3 TL		0.3
ANCHOA HEPSETUS	3 3 13.3 12.0-15.7 TL		1.0
PAGFAULIS EURYSTOIE	2 2 15.0 12.1-17.0 TL		0.6
UROPHYCIS CHUSS	10 8 4.1 2.7- 5.7 NL	9 7 3.8 2.5- 4.5 NL	4.5
CENTROPRISTIS STRIATA	2 2 5.0 5.0- 5.0 SL	1 1 5.4 SL	0.8
MENICIRPHUS SP.	1 1 5.9 SL		0.3
TAUTOGLOMERUS ADSPERSUS		2	0.3
ALXIS SP.	1 1 14.1 SL		0.3
PEPRILUS TRIACANTHUS	16 16 6.1 4.0-11.0 SL	16 16 7.1 4.7-11.5 SL	7.5
PEPINOTUS CARLINUS		1	0.2
CITHARICHTHYS ARCTIFRONS	46 25 7.6 4.6-10.7 SL	25 29 8.6 6.6-12.6 SL	18.8
ETREPOS MICROSTOMUS	34 23 5.9 2.1-11.5 SL	9 8 5.1 4.5- 7.1 SL	11.9
HIPPUGLOSSINA OBLONGUS	3 3 10.2 6.2-14.3 SL	3 3 8.4 8.5-10.2 SL	1.4
GLYPTOCEPHALUS CYNOGLOSSUS		1 1 27.1 SL	0.2
ADDITIONAL LARVAE CAUGHT	PISCODONOPHIS CRUENTIFER OPHIIDIIDAE URANOSCOPICAE GOBIIDAE	OPHIIDIIDAE UNIDENTIFIED	
K 6 23 08	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 18-33M	
LOPHIUS AMERICANUS	3 3 16.1 9.1-20.4 TL	1 1 13.4 TL	1.2
UROPHYCIS CHUSS	11 8 4.5 3.3- 5.5 NL		3.7
ALXIS SP.	1 1 4.9 SL		0.3
PEPRILUS TRIACANTHUS	5 5 5.4 2.0- 8.7 SL	2 2 6.0 5.0- 7.1 SL	2.2
PEPINOTUS CARLINUS	1 1 3.7 SL		0.3
CITHARICHTHYS ARCTIFRONS	58 25 5.3 4.1- 7.1 SL	28 26 6.6 4.2-11.7 SL	26.7
ETREPOS MICROSTOMUS	19 19 4.2 2.7- 5.7 SL	2 2 5.5 4.1- 7.6 SL	6.4
HIPPUGLOSSINA OBLONGUS	5 5 6.9 5.4- 8.7 SL	1	1.8
ADDITIONAL LARVAE CAUGHT	OPHIIDIIDAE URANOSCOPICAE	OPHIIDIIDAE UNIDENTIFIED	
K 7 23 08	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 18-33M	
UROPHYCIS CHUSS	5 2 2.6 1.5- 3.8 NL		1.7
ALXIS SP.	1 1 12.5 SL		0.3
PEPRILUS TRIACANTHUS	2 1 2.5 SL	2 2 4.6 4.4- 4.9 SL	1.3
CITHARICHTHYS ARCTIFRONS	4 4 4.0 3.2- 4.9 SL		1.3
ETREPOS MICROSTOMUS	1 1 3.9 SL	2 2 5.5 5.5- 5.5 SL	1.0
HIPPUGLOSSINA OBLONGUS	5 4 4.9 3.0- 7.4 SL	1 1 2.7 SL	1.8
ADDITIONAL LARVAE CAUGHT	OPHIICHTHIDAE STROMATEICAE	OPHIIDIIDAE UNIDENTIFIED	

CRUISE DATE	***** LARVAE *****	***** LARVAE *****	2
0661C 1966	NUMBER LENGTHS (MM) NO.	NUMBER LENGTHS (MM) NO.	PC. PER 10M
STA. 04 SPECIES ANALYZED	TOTAL MEAS. MEAN RANGE MEAS. EGGS	TOTAL MEAS. MEAN RANGE MEAS. EGGS	EGGS
1 5 25 09	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 12-33M	
ANCHOA MOPSETUS	8 7 10.5 6.8-13.0 TL		2.7
PERCILLUS TRIACANTHUS	8 7 2.8 2.4- 3.1 SL		2.7
CITHARICHTHYS ARCTIFRONS	1 1 3.0 SL	1 1 3.1 SL	0.6
ETROPLUS MICROSTOMUS	2 2 3.1 2.7- 3.5 SL		0.7
SYMPHYRUS SP.		1 1 5.5 SL	0.3
ADDITIONAL LARVAE CAUGHT	SYNOBRANCHIIDAE OPHIIDIIDAE SCIAENIIDAE LABRIDAE OR SCARIDAE CALLIONYMIDAE STROMATEIDAE TETRAODONTIDAE	UNIDENTIFIED	
.....			
M 1 25 0E	SAMPLING DEPTH 0-6M		
ANCHOA MOPSETUS	57 52 7.8 3.4-15.0 TL		6.9
CENTROPOMUS STRIATUS	1 1 3.3 SL		0.1
LARIMUS FASCIATUS	4 4 3.3 3.1- 3.6 SL		0.5
MENTICIRRHUS SP.	5 5 3.6 3.2- 4.0 SL		0.6
MICROPOMUS UNDULATUS	15 15 3.4 2.8- 4.1 SL		1.8
AUXIS SP.	1 1 6.5 SL		0.1
PERCILLUS TRIACANTHUS	1 1 3.8 SL		0.1
ETROPLUS MICROSTOMUS	2 2 4.2 3.1- 5.2 SL		0.2
SYNCHIUM PAPILLOSUM	1 1 4.9 SL		0.1
SYMPHYRUS SP.	3 3 4.1 3.4- 4.9 SL		0.4
ADDITIONAL LARVAE CAUGHT	OPHIIDIIDAE SCIAENIIDAE LABRIDAE OR SCARIDAE SPHYRAENIIDAE WRANCSCEIIDAE BLENNIIDAE COBIIDAE BALISTIIDAE UNIDENTIFIED		
.....			
M 2 25 0R	SAMPLING DEPTH 0-6M		
PARAFALUS EUPYSTOLE	60 57 7.6 2.6-13.7 TL		7.3
LARIMUS FASCIATUS	9 9 2.9 2.2- 3.7 SL		1.1
MICROPOMUS UNDULATUS	97 57 3.0 2.4- 7.8 SL		11.8
AUXIS SP.	2 2 8.3 8.2- 8.5 SL		0.2
EUTIMYNNUS ALLIETTERATUS	1 1 4.3 SL		0.1
ETROPLUS MICROSTOMUS	9 9 6.0 4.3- 8.0 SL		1.1
SYNCHIUM PAPILLOSUM	3 3 6.5 4.2- 9.2 SL		0.4
SYMPHYRUS SP.	19 19 4.5 2.5- 8.2 SL		2.3
ADDITIONAL LARVAE CAUGHT	OPHIICHTHIDAE CYCLOTHENE SP. SYNOBRANCHIIDAE OPHIIDIIDAE CARANGIIDAE LABRIDAE OR SCARIDAE BLENNIIDAE CALLIONYMIDAE COBIIDAE TRIGLICAE BALISTIIDAE UNIDENTIFIED		

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COLLECTOR DATE		***** LARVAE *****					***** LARVAE *****					***** LARVAE *****	
STA.	NO.	SPECIES ANALYZED	NUMBER	LENGTHS (MM)	NO.	NUMBER	LENGTHS (MM)	NO.	NUMBER	LENGTHS (MM)	NO.	NO. PER 1CM	
NO.	NO.		TOTAL MEAS.	MEAN	RANGE	TOTAL MEAS.	MEAN	RANGE	TOTAL MEAS.	MEAN	RANGE	MEAS. EGGS	
1	25	CE	SAMPLING DEPTH	0-15M		SAMPLING DEPTH	18-24M		SAMPLING DEPTH	0-15M			
1	1	77.5	TL			1	1	22.2	TL			0.3	
1	1	24.1	TL			18	18	7.5	6.5-8.8	TL		5.8	
21	21	7.2	5.5-9.4	TL		88	54	6.4	2.5-10.2	TL		28.4	
195	85	5.1	2.5-11.2	TL		1	1	4.0		SL		0.3	
1	1	3.6		SL		1	1	10.3		SL		0.3	
13	12	2.5	2.3-4.4	SL		1	1	9.4		SL		0.2	
9	9	3.3	2.7-4.0	SL		1	1	3.7		SL		0.3	
24	24	3.4	3.0-4.1	SL		1	1	3.7		SL		0.2	
5	5	4.1	3.4-4.9	SL		2	2	6.0	5.1-7.0	SL		0.6	
7	7	6.3	3.9-11.1	SL		4	4	6.1	4.2-6.8	SL		1.3	
1	1	5.5		SL		1	1	5.5		SL		0.3	
5	5	6.2	3.7-9.4	SL		5	5	2.9	2.0-3.5	SL		1.6	
5	5	6.5	5.0-9.2	SL		11	11	4.3	2.2-7.3	SL		0.2	
11	11	4.9	3.8-7.3	SL		6	6	4.1	2.9-7.1	SL		3.6	
20	20	5.7	2.8-9.3	SL		45	44	3.8	2.2-5.4	SL		1.9	
ADDITIONAL LARVAE CAUGHT			OPHIOTRICHIDAE					SYNGNATHIDAE					
			SYNGNATHIDAE					LABRIDAE OR SCARIDAE					
			LOPHOTRICHIDAE					CALLIONYMIDAE					
			OPHIOTRICHIDAE					Gobiidae					
			SEMPERIDAE					TRIGLIDAE					
			CARANGIDAE					UNIDENTIFIED					
			SCIAENIDAE										
			LABRIDAE OR SCARIDAE										
			SPHYRAENIDAE										
			ELEPHIDAE										
			CALLIONYMIDAE										
			Gobiidae										
			SCORPAENIDAE										
			TRIGLIDAE										
			BALISTIDAE										
			UNIDENTIFIED										

TABLE 3. (continued)

CRUISE DATE	***** LARVAE *****	NUMBER	LENGTHS (MM)	NO.	2
0661C 1966	TOTAL MEAS.	TOTAL MEAS.	MEAN RANGE MEAS.	EGGS	EGGS
STA. 0 M SPECIES ANALYZED	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 16-33M			NO. PER 10M
N 5 25 08	26B 71 4.7 2.5-10.3 TL	21 20 6.2 3.5-10.8 TL			EGGS
ENGRAULIS EURYSTOLE		1 1 4.8 SL			89.3
CERATOSCOPELUS WARMINGI		2 2 3.6 3.2- 4.5 SL			0.3
DIAPHUS SP.		1 1 7.1 SL			0.7
LEMPANYCTUS ALATUS OR PHOTONOTUS		1 1 6.6 SL			0.3
LEMPANYCTUS CLIPINUS		2 2 3.0 2.4- 3.7 SL			0.3
LEMPANYCTUS FUSCIATUS	4 4 3.1 2.9- 3.5 SL				1.9
MENTICIRRHUS SP.	1 1 2.7 SL				0.3
MICROPODON UNULATUS	1 1 3.4 SL	1 1 3.4 SL			0.6
AUXIS SP.	1 1 4.6 SL				0.3
ELTHYNNUS ALLETTERATUS	2 2 6.1 4.9- 7.4 SL	2 2 5.1 5.1- 5.2 SL			1.3
PRIENOTUS CAROLINUS	2 2 5.5 5.7- 6.2 SL	6 6 5.1 4.6- 6.1 SL			2.6
RETHUS OCELLATUS	3 3 6.2 4.0- 8.0 SL				1.0
SYACIUM PAPILLOSUM	19 19 4.2 1.9-11.3 SL				6.3
SYMPHYRUS SP.	7 6 4.9 3.4- 6.2 SL	5 5 5.0 3.5- 8.1 SL			3.8
ADDITIONAL LARVAE CAUGHT	MURAENIDAE	NETTASTOMATIDAE			
	SYNODONTIDAE	SYNODONTIDAE			
	OPHIIDIIDAE	PARALEPIDIDAE			
	SERRANIDAE	LOPHIIFORMES			
	CARANGIDAE	BREGMACERCTIDAE			
	LABRIDAE OR SCARIDAE	OPHIIDIIDAE			
	CALLICNYPTIDAE	CARAPIDAE			
	GOBIIDAE	SERRANIDAE			
	SCORPAENIDAE	CARANGIDAE			
	TRIGLIDAE	LABRIDAE OR SCARIDAE			
	BALISTIDAE	BLENNIIDAE			
	UNIDENTIFIED	CALLICNYPTIDAE			
		GOBIIDAE			
		STROMATEIDAE			
		SCORPAENIDAE			
		TRIGLIDAE			
		BALISTIDAE			
		TETRAODONTIDAE			
		UNIDENTIFIED			
.....					
N 1 25 08	SAMPLING DEPTH 0-15M				
LETHARCHUS VELIFER	1 1 40.5 TL				0.3
SARCINELLA ANCHOVIA	5 5 16.3 13.0-19.0 TL				1.5
ENGRAULIS EURYSTOLE	465 145 6.4 2.8-18.8 TL				140.9
CENTROPOMUS STRIATA	1 1 4.5 SL				0.3
LEMPANYCTUS FUSCIATUS	32 32 3.0 2.2- 3.7 SL				9.7
MENTICIRRHUS SP.	12 9 3.1 2.4- 3.6 SL				3.6
MICROPODON UNULATUS	5 5 3.3 3.2- 3.5 SL				1.5
AUXIS SP.	1 1 6.0 SL				0.3
ELTHYNNUS ALLETTERATUS	13 13 5.5 4.7- 8.9 SL				3.9
PEFFILUS TRIACANTHUS	4 4 3.2 2.2- 4.5 SL				1.2
PRIENOTUS CAROLINUS	17 17 4.1 2.8- 6.1 SL				5.2
RETHUS OCELLATUS	8 8 7.4 3.4-17.4 SL				2.4
CYCLOPSETTA FIMBRIATA	5 5 6.5 5.4- 7.8 SL				1.5
SYACIUM PAPILLOSUM	78 25 5.1 3.1- 8.3 SL				23.6
SYMPHYRUS SP.	27 24 5.2 3.2-14.4 SL				8.2
ADDITIONAL LARVAE CAUGHT	MURAENIDAE				
	SYNODONTIDAE				
	LOPHIIFORMES				
	OPHIIDIIDAE				
	SERRANIDAE				
	GRAMMISTIDAE				
	CARANGIDAE				
	LABRIDAE OR SCARIDAE				
	URANOSCOPIDAE				
	CALLICNYPTIDAE				
	GOBIIDAE				
	TRICHIURIDAE				
	SCORPAENIDAE				
	TRIGLIDAE				
	BALISTIDAE				
	UNIDENTIFIED				

TABLE 3. (continued)

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CRUISE DATE
06610 1966
STA. 04 SPECIES ANALYZED
N 2 25 08

***** LARVAE *****
NUMBER LENGTHS (MM) NO.
TOTAL MEAS. MEAN RANGE MEAS. EGGS
SAMPLING DEPTH 0-15M
583 158 8.4 2.4-15.5 TL
2 2 7.3 6.1- 8.5 SL
4 3 3.8 3.7- 4.0 SL
1 1 4.8 SL
1 1 3.2 SL
1 1 7.1 SL
1 1 10.4 SL
6 6 7.1 6.0- 8.1 SL
2 2 3.8 3.7- 4.2 SL
4 4 6.7 3.6- 8.8 SL
13 13 6.7 3.3-10.8 SL
3 3 8.1 3.9-10.7 SL

***** LARVAE *****
NUMBER LENGTHS (MM) NO.
TOTAL MEAS. MEAN RANGE MEAS. EGGS

NO. PER 10M²
LARVAE EGGS

ANCHOVA MOPSETUS
SERPANTICULUS PUMTIC
LAPIMUS FASCIATUS
MENTICIRRHUS SP.
MICROPOGON UNDULATUS
ALYIS SP.
SCOMBEROMORUS CAVALLA
PARENTOTUS CAROLINUS
ROTHUS OCELLATUS
ETROPUS MICROSTOMUS
SYACIUM PAPILLOSUM
SYMPHURUS SP.

176.6
0.6
1.2
0.3
0.3
0.3
0.3
1.8
0.6
1.2
3.9
0.9

ADDITIONAL LARVAE CAUGHT
SYNODONTIDAE
LOPHIICHTHES
ORPHOTIDAE
SERRANIDAE
CARANGIDAE
SPARIDAE
LABRIDAE OR SCARIDAE
BLENNIIDAE
CALLIONYMIDAE
GOBIIDAE
TRICHLIRIDAE
SCORPAENIDAE
TRIGLIDAE
BALISTIDAE
UNIDENTIFIED

N 3 25 08

SAMPLING DEPTH 0-15M
2 2 41.9 35.0-48.8 TL
5 4 5.9 4.9- 8.8 SL
1 1 4.0 SL
20 20 3.6 2.3-11.5 SL
8 7 4.2 2.7- 6.7 SL

SAMPLING DEPTH 18-24M

1 1 72.5 TL
284 82 6.4 2.9-11.3 TL
3 3 3.5 2.9- 3.8 SL
1 1 4.8 SL
8 8 4.2 3.4- 5.1 SL
4 4 5.4 5.0-12.8 SL
5 5 4.2 3.0- 5.0 SL
11 9 5.0 3.2-10.7 SL

0.6
0.2
45.9
0.5
1.6
0.5
1.3
0.6
6.9
4.2

ADDITIONAL LARVAE CAUGHT
MURAENIDAE
OPHICHTHIDAE
SYNODONTIDAE
LOPHIICHTHES
OPHIDIIDAE
CARAPIDAE
ATHERINIDAE
SERRANIDAE
CARANGIDAE
LABRIDAE OR SCARIDAE
CALLIONYMIDAE
GOBIIDAE
SCORPAENIDAE
TRIGLIDAE
BALISTIDAE
TETRAODONTIDAE
UNIDENTIFIED

SYNODONTIDAE
BREGMACEROTIDAE
OPHIOTIDAE
SERRANIDAE
CARANGIDAE
LABRIDAE OR SCARIDAE
CALLIONYMIDAE
GOBIIDAE
TRIGLIDAE
BALISTIDAE
TETRAODONTIDAE

TABLE 3. (continued)

CRUISE DATE	***** LARVAE *****	***** LARVAE *****	2
NO. 6610 1966	NUMBER	LENGTHS (MM)	NO.
STA. 04 SPECIES ANALYZED	TOTAL MEAS.	MEAN RANGE MEAS.	EGGS
N 4 26 CE	SAMPLING DEPTH 0-15M	10-23M	NO. PER 10M EGGS
OPHICHTHUS GOMESI	1 1 34.3 TL		0.3
SARCIINELLA ANCHOVIA	7 7 9.6 9.0-11.2 TL		2.3
ENGRAULIS EURYSTOIE	16 16 7.6 3.5-16.9 TL	36 33 6.1 3.5-10.6 TL	16.8
BENTHOSOMA SP.		1 1 3.9 SL	0.3
DIAPHUS SP.		1 1 3.6 SL	0.3
LAMPANICTUS ALATUS OR PHOTONCTUS		1 1 6.9 SL	0.3
CENTROPOMISTIS STRIATA		2 2 2.7 2.5-2.9 SL	0.7
ALXIS SP.	1 1 5.7 SL	2 2 4.3 4.1-4.5 SL	1.0
EUTHYNNUS ALLETERATUS	4 3 5.3 4.5-5.8 SL	9 9 4.3 3.9-4.9 SL	4.2
SCORPAENOCORUS CAVALLA	3 3 4.1 3.6-4.7 SL	4 4 4.3 3.7-5.0 SL	2.2
PEPRILUS TRIACANTHUS		2 2 2.7 2.5-3.0 SL	0.7
PELTONOTUS CAROLINUS		16 16 3.1 2.1-4.5 SL	5.3
ACTHUS OCELLATUS	1 1 4.3 SL	3 3 5.6 5.5-17.0 SL	1.3
SYACIUM PAPILLOSUM	6 6 3.5 2.2-4.7 SL	2 2 4.6 4.4-4.7 SL	2.5
SYMPHURUS SP.	1 1 10.2 SL	6 6 4.2 3.2-7.9 SL	2.3
ADDITIONAL LARVAE CAUGHT	LOPHIICHTHUS	ANGUILLIFORMES	
	OPHIOTIDAE	SYNODONTIDAE	
	SERRANIIDAE	LOPHIOTIDAE	
	CARANGIIDAE	OPHIOTIDAE	
	LABRIDAE OR SCARIDAE	CARANGIIDAE	
	CALLIONYMIDAE	LABRIDAE OR SCARIDAE	
	GOBIIDAE	CALLIONYMIDAE	
	SCORPAENIIDAE	GOBIIDAE	
	TRIGLIDAE	TRIGLIDAE	
	BALISTIDAE	BALISTIDAE	
		TETRAODONTIDAE	
		UNIDENTIFIED	
.....			
N 5 26 OF	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 10-23M	
MEGALOPS ATLANTICA	2 2 17.7 14.0-21.5 NL		0.7
SARCIINELLA ANCHOVIA	8 8 9.6 6.9-12.0 TL	1 1 10.2 TL	2.7
ENGRAULIS EURYSTOIE	1 1 13.7 TL		0.3
BENTHOSOMA SP.		1 1 4.1 SL	0.3
DIAPHUS SP.		3 3 6.1 4.0-9.9 SL	1.0
HEMIRHAMPHUS VIVANUS		1 1 2.8 SL	0.3
ALXIS SP.	25 24 5.7 3.3-22.8 SL	5 5 5.2 4.2-6.1 SL	9.2
EUTHYNNUS ALLETERATUS	28 23 5.6 3.7-23.2 SL	3 3 4.8 4.5-5.2 SL	5.4
SCORPAENOCORUS CAVALLA	4 4 4.6 3.8-5.9 SL	2 2 5.6 5.6-5.7 SL	1.9
ACTHUS OCELLATUS	1 1 4.2 SL	1 1 5.2 SL	0.6
SYACIUM PAPILLOSUM	13 13 3.9 2.7-5.2 SL	2 2 4.4 4.2-4.6 SL	4.6
SYMPHURUS SP.	3 2 4.5 3.7-5.2 SL		1.0
ADDITIONAL LARVAE CAUGHT	OPHIOTIDAE	OPHIOTIDAE	
	CYCLOTHONIDAE	NETTASTOMATIDAE	
	SYNODONTIDAE	CYCLOTHONIDAE	
	PARALICHTHIDAE	VINCIGUERRIIDAE	
	OPHIOTIDAE	SYNODONTIDAE	
	SERRANIIDAE	MYCTOPHIDAE	
	GRAMMISTIDAE	LOPHIOTIDAE	
	PRIACANTHIDAE	OPHIOTIDAE	
	CARANGIIDAE	CARANGIIDAE	
	CHAETODONTIDAE	SERRANIIDAE	
	LABRIDAE OR SCARIDAE	GRAMMISTIDAE	
	CALLIONYMIDAE	MALACANTHUS SP.	
	GOBIIDAE	CARANGIIDAE	
	ACANTHURIDAE	POMACENTRIDAE	
	SCORPAENIIDAE	LABRIDAE OR SCARIDAE	
	BALISTIDAE	CALLIONYMIDAE	
	TETRAODONTIDAE	GOBIIDAE	
	UNIDENTIFIED	ACANTHURIDAE	
		STROMATEIIDAE	
		SCORPAENIIDAE	
		UNIDENTIFIED	
.....			
P 1 26 OF	SAMPLING DEPTH 0-6M		
ENGRAULIS EURYSTOIE	74 40 5.3 1.9-9.2 TL		9.0
LARIMUS FUSCATUS	1 1 3.7 SL		0.1
SYMPHURUS SP.	28 24 3.0 2.2-4.9 SL		3.4
ADDITIONAL LARVAE CAUGHT	SYNGNATHIDAE		
	CARANGIIDAE		
	BLENNIIDAE		
	TRIGLIDAE		
	BALISTIDAE		
	UNIDENTIFIED		

TABLE 3. (continued)

CRUISE DATE				***** LARVAE *****				***** LARVAE *****				2	
D6610 1966				NUMBER LENGTHS (MM) NO.				NUMBER LENGTHS (MM) NO.				NO. PER 10M	
STA. 04 SPECIES ANALYZED				TOTAL MEAS. MEAN RANGE MEAS. EGGS				TOTAL MEAS. MEAN RANGE MEAS. EGGS				LARVAE EGGS	
P 2 26 CR				SAMPLING DEPTH 0-6M									
ENGRAULIS EURYSTOMIE				106	101	4.8	1.9-10.0 TL					12.8	
MENTICIPRUS SP.				1								0.1	
MICROPOGON UNDULATUS				1	1	5.5	SL					0.1	
FLUTHYNNUS ALLETTIEMATUS				2	2	5.8	5.7- 5.9 SL					0.2	
SYMPHURUS SP.				71	25	3.2	2.2- 6.2 SL					8.6	
ADDITIONAL LARVAE CAUGHT				CPHIDIIDAE									
				SYNGNATHIDAE									
				SERRANIDAE									
				CARANGIDAE									
				LABRIDAE OR SCARIDAE									
				BLENNIIDAE									
				GOBIIDAE									
				TRIGLICAE									
				BALISTIDAE									
				UNIDENTIFIED									
.....													
P 3 26 OB				SAMPLING DEPTH 0-6M									
SARDINELLA ANCHOVIA				4	4	6.9	4.4-11.5 TL					0.5	
ENGRAULIS EURYSTOMIE				33	31	5.7	3.2-10.0 TL					4.0	
MENTICIPRUS SP.				2	2	3.1	3.1- 3.2 SL					0.2	
MICROPOGON UNDULATUS				1	1	3.0	SL					0.1	
SYMPHURUS SP.				3	3	3.7	2.9- 4.5 SL					0.4	
ADDITIONAL LARVAE CAUGHT				MURAENIDAE									
				CPHIDIIDAE									
				LABRIDAE OR SCARIDAE									
				GOBIIDAE									
				TRIGLICAE									
				BALISTIDAE									
				UNIDENTIFIED									
.....													
P 4 26 OB				SAMPLING DEPTH 0-15M									
OPHICHTHUS GOMSI				1	1	30.3	TL					0.3	
ENGRAULIS EURYSTOMIE				38	36	8.1	5.2-11.5 TL					11.5	
LARIUS FASCIATUS				1	1	3.2	SL					0.3	
AUXIS SP.				2	2	4.6	3.6- 5.6 SL					0.6	
FLUTHYNNUS ALLETTIEMATUS				7	7	5.6	4.8- 6.8 SL					2.1	
SCORPAENOMORUS CAVALLA				2	2	5.8	5.2- 6.5 SL					0.6	
BOCHUS OCELLATUS				1	1	4.2	SL					0.3	
SYACIUM PAPILLOSUM				8	8	3.9	2.8- 5.0 SL					2.4	
SYMPHURUS SP.				2	2	5.0	3.8- 6.2 SL					0.6	
ADDITIONAL LARVAE CAUGHT				CYCLOTHONF SP.									
				SYNODONTIDAE									
				OPHIDIIDAE									
				CARAPIDAE									
				SERRANIDAE									
				GRAMMISTIDAE									
				CARANGIDAE									
				LABRIDAE OR SCARIDAE									
				BLENNIIDAE									
				CALLIONYMIDAE									
				GOBIIDAE									
				TRICHTURIDAE									
				STROMATEIDAE									
				SCORPAENIDAE									
				TRIGLICAE									
				BALISTIDAE									
				UNIDENTIFIED									
.....													
CRUISE DATE				***** LARVAE *****				***** LARVAE *****				2	
D6610 1966				NUMBER LENGTHS (MM) NO.				NUMBER LENGTHS (MM) NO.				NO. PER 10M	
STA. 04 SPECIES ANALYZED				TOTAL MEAS. MEAN RANGE MEAS. EGGS				TOTAL MEAS. MEAN RANGE MEAS. EGGS				LARVAE EGGS	
P 5 25 CR				SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
ENGRAULIS EURYSTOMIE				9	4	8.7	6.6-10.7 TL					3.0	
CERATOSCOPELUS MADRENSIS				1	1	4.1	SL					0.3	
DIOGENICHTHYS ATLANTICUS								1	1	7.9	SL	0.3	
LOBIANCHIA SP.								1	1	5.8	SL	0.3	
HEMANTHIAS VIVANUS				1	1	3.7	SL					0.3	
AUXIS SP.				8	8	6.2	3.9-11.2 SL					4.1	
FLUTHYNNUS ALLETTIEMATUS				2	2	8.1	6.0-10.2 SL					0.7	
KATSUWONUS PELAMIS				2	2	5.7	4.9- 6.5 SL					0.7	
THUANUS ALBACARES OR ALALUNCA				2	2	5.4	4.6- 6.2 SL					0.7	
BOCHUS OCELLATUS				4	4	3.5	3.2- 3.8 SL					4.5	
CITHARICHTHYS ARCTIFRONS								10	9	6.0	2.9- 9.2 SL	0.3	
FISTEUS MICROSTOMUS								1	1	4.1	SL	0.3	
SYACIUM PAPILLOSUM				15	14	3.7	2.6- 4.9 SL					0.3	
SYMPHURUS SP.				2	2	4.2	4.2- 4.2 SL					6.8	
ADDITIONAL LARVAE CAUGHT				SYNODONTIDAE				OPHICHTHIDAE				0.9	
				PARALEPIDIDAE				CYCLOTHONF SP.					
				LOPHIIFORMES				SYNODONTIDAE					
				CPHIDIIDAE				PARALEPIDIDAE					
				CARAPIDAE				LOPHIIFORMES					
				CAPROIDAE				GRAMMISTIDAE					
				SERRANIDAE				APOGONIDAE					
				PRIACANTHIDAE				MALACANTHUS SF.					
				APOGONIDAE				CARANGIDAE					
				CARANGIDAE				PCMACENTRIDAE					
				CORYPHAENIDAE				LABRIDAE OR SCARIDAE					
				SPARIDAE				GOBIIDAE					
				LABRIDAE OR SCARIDAE				ACANTHURIDAE					
				CALLIONYMIDAE				STROMATEIDAE					
				GOBIIDAE				SCORPAENIDAE					
				SCORPAENIDAE				TRIGLICAE					
				UNIDENTIFIED				UNIDENTIFIED					

CRUISE DATE	NUMBER	LENGTHS (MM)	NO.	CRUISE DATE	NUMBER	LENGTHS (MM)	NO.	NO. PER 10M
STA. NO. SPECIES ANALYZED	TOTAL MEAS.	MEAN RANGE MEAS.	EGGS	STA. NO. SPECIES ANALYZED	TOTAL MEAS.	MEAN RANGE MEAS.	EGGS	LAPVAE
A 1 13 09	8	9.1 7.5-10.4 NL		A 1 13 09	8	9.1 7.5-10.4 NL		0.5
UDOPHYCIS CHUSS				UDOPHYCIS CHUSS				
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED			ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED			
A 2 13 09				A 2 13 09				
ENCHELYOPUS CIMBRICUS	5	4 2.4 2.2-2.7 NL	2	ENCHELYOPUS CIMBRICUS	3	2 3.1 3.1-3.2 NL	1	0.0
UDOPHYCIS SP.	2	2 2.9 2.6-3.3 NL	15	UDOPHYCIS SP.	2	2 2.6-3.7 NL	7	2.0
MERLUCCIIUS BILINEARIS				MERLUCCIIUS BILINEARIS	1	1 2.2 TL		2.1
TAUTOGA ONITIS	2	2 5.1 4.8-5.5 SL		TAUTOGA ONITIS				0.2
PERFILIUS TRIACANTHUS				PERFILIUS TRIACANTHUS				0.6
ADDITIONAL LARVAE CAUGHT	STROMATEIDAE			ADDITIONAL LARVAE CAUGHT	STROMATEIDAE			
A 3 13 09				A 3 13 09				
ENCHELYOPUS CIMBRICUS	32	21 5.0 2.4-7.1 NL	1	ENCHELYOPUS CIMBRICUS	3	3 2.5-3.5 SL	0	0.5
UDOPHYCIS CHUSS	13	12 3.6 2.5-4.8 NL	190	UDOPHYCIS CHUSS	3	2 5.1-6.8 NL		10.3
MERLUCCIIUS BILINEARIS				MERLUCCIIUS BILINEARIS	9	8 3.9 2.8-4.6 NL	23	5.5
ALIXIS SP.	1	1 6.2 SL		ALIXIS SP.	1	1 4.4 SL		0.2
CITHARICHTHYS ARCTIFRONS	2	2 6.2 6.1-6.2 SL		CITHARICHTHYS ARCTIFRONS				0.3
HIPPENGLOSSINA OBLONGUS	2	2 4.4 3.9-4.8 SL		HIPPENGLOSSINA OBLONGUS	2	2 3.2 2.9-3.4 SL		0.6
SCOPHTHALMUS AQUOSUS				SCOPHTHALMUS AQUOSUS				0.9
ADDITIONAL LARVAE CAUGHT	STROMATEIDAE			ADDITIONAL LARVAE CAUGHT	STROMATEIDAE			
A 4 13 09				A 4 13 09				
ENCHELYOPUS CIMBRICUS	4	4 2.3 1.7-2.8 SL	2	ENCHELYOPUS CIMBRICUS	18	18 3.1 1.9-4.1 SL	0	7.2
UDOPHYCIS SP.	143	31 3.5 2.0-5.0 NL		UDOPHYCIS SP.	126	32 3.0 1.7-4.9 NL		64.9
MERLUCCIIUS BILINEARIS	136	121 4.2 2.2-6.2 NL	7	MERLUCCIIUS BILINEARIS	91	86 3.8 2.3-6.5 NL	22	71.1
TAUTOGLABRUS ADSPERSUS	1	1 7.0 TL		TAUTOGLABRUS ADSPERSUS				0.3
CITHARICHTHYS ARCTIFRONS	60	25 5.4 4.0-6.7 SL		CITHARICHTHYS ARCTIFRONS	12	12 6.2 5.3-7.2 SL		22.0
HIPPENGLOSSINA OBLONGUS	15	14 4.7 3.7-5.7 SL		HIPPENGLOSSINA OBLONGUS	10	9 5.2 3.7-6.1 SL		7.8
SCOPHTHALMUS AQUOSUS	4	4 3.7 3.2-4.2 SL		SCOPHTHALMUS AQUOSUS	2	2 4.2 3.5-4.8 SL		1.9
GLYPTOCEPHALUS CYNODONOSUS				GLYPTOCEPHALUS CYNODONOSUS	1	1 8.5 SL		0.3
ADDITIONAL LARVAE CAUGHT	STROMATEIDAE			ADDITIONAL LARVAE CAUGHT	STROMATEIDAE			
A 5 13 09				A 5 13 09				
ENCHELYOPUS CIMBRICUS	172	14 2.9 1.4-4.0 NL	23	ENCHELYOPUS CIMBRICUS	15	14 2.1 1.6-3.9 SL	23	5.0
UDOPHYCIS SP.	197	187 4.5 1.8-6.7 NL	112	UDOPHYCIS SP.	1	1 2.5 NL		0.3
MERLUCCIIUS BILINEARIS				MERLUCCIIUS BILINEARIS	65	15 3.7 1.5-5.9 NL		73.3
TAUTOGLABRUS ADSPERSUS	1	1 5.5 SL		TAUTOGLABRUS ADSPERSUS	201	198 4.8 1.8-7.5 NL	116	126.1
PERFILIUS TRIACANTHUS	12	10 7.4 6.0-9.2 SL		PERFILIUS TRIACANTHUS	2	2 5.1 2.5-7.7 TL		0.7
CITHARICHTHYS ARCTIFRONS	9	9 3.9 3.2-4.3 SL		CITHARICHTHYS ARCTIFRONS	5	5 7.4 6.2-8.7 SL		0.3
HIPPENGLOSSINA OBLONGUS				HIPPENGLOSSINA OBLONGUS	6	5 4.7 3.4-6.2 SL		5.3
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED			ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED			4.7
A 6 13 09				A 6 13 09				
LOPHIUS AMERICANUS	8	8 5.8 4.8-7.8 TL	15	LOPHIUS AMERICANUS	10	10 5.7 4.3-8.2 TL	3	5.7
ENCHELYOPUS CIMBRICUS	1	1 3.7 SL		ENCHELYOPUS CIMBRICUS	1	1 2.0 SL		0.6
UDOPHYCIS SP.	348	18 4.0 3.0-5.2 NL		UDOPHYCIS SP.	93	16 4.3 3.5-5.4 NL		31.0
UDOPHYCIS CHUSS	86	63 5.8 2.7-11.5 NL	0	UDOPHYCIS CHUSS	131	123 5.5 4.1-11.5 NL	9	116.0
MERLUCCIIUS BILINEARIS	8	8 6.7 5.6-8.2 SL		MERLUCCIIUS BILINEARIS	1	1 4.9 SL		69.5
CITHARICHTHYS ARCTIFRONS	1	1 4.2 SL		CITHARICHTHYS ARCTIFRONS	1	1 6.2 SL		2.7
HIPPENGLOSSINA OBLONGUS				HIPPENGLOSSINA OBLONGUS				0.6
LIMANDA FERRUGINEA				LIMANDA FERRUGINEA	1	1 6.2 SL		0.3
ADDITIONAL LARVAE CAUGHT	OPHIIDIIDAE			ADDITIONAL LARVAE CAUGHT	LOPHIIFORMES			
A 7 14 09				A 7 14 09				
CITHARIS SP.	2	2 7.6 6.9-8.7 SL		CITHARIS SP.				0.7
LOPHIUS AMERICANUS	9	9 4.9 3.4-7.6 TL		LOPHIUS AMERICANUS	6	6 5.8 3.8-10.0 TL		5.1
UDOPHYCIS SP.	109	18 4.5 3.2-6.0 NL		UDOPHYCIS SP.	8	5 4.7 3.4-5.5 NL		27.8
MERLUCCIIUS BILINEARIS	81	63 5.0 3.7-20.0 NL	0	MERLUCCIIUS BILINEARIS	113	107 5.2 2.9-21.0 NL	0	66.9
CITHARICHTHYS ARCTIFRONS	6	5 6.3 5.9-6.8 SL		CITHARICHTHYS ARCTIFRONS	1	1 6.8 SL		2.2
ADDITIONAL LARVAE CAUGHT	SYNDONTIDAE			ADDITIONAL LARVAE CAUGHT	SYNDONTIDAE			
	OPHIIDIIDAE				OPHIIDIIDAE			
	LABRIDAE OR SCARIDAE				LABRIDAE OR SCARIDAE			
P 1 14 09				P 1 14 09				
ENCHELYOPUS FURCOSTOMAE	1	1 17.0 TL		ENCHELYOPUS FURCOSTOMAE				0.1
ENCHELYOPUS CIMBRICUS	4	4 1.8 1.5-2.3 SL	0	ENCHELYOPUS CIMBRICUS				0.5
UDOPHYCIS CHUSS	5	3 5.8 6.7-15.5 NL		UDOPHYCIS CHUSS				0.6
MERLUCCIIUS BILINEARIS	13	10 2.7 2.4-3.2 NL	0	MERLUCCIIUS BILINEARIS				1.6
PRIONOTUS CARLINIUS	2	2 3.3 3.0-3.7 SL		PRIONOTUS CARLINIUS				0.2
HIPPENGLOSSINA OBLONGUS	2			HIPPENGLOSSINA OBLONGUS				0.2
SCOPHTHALMUS AQUOSUS	1	1 2.8 SL		SCOPHTHALMUS AQUOSUS				0.1
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED			ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED			

[illegible]

TABLE 3. (continued)

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CRUISE DATE		***** LARVAE *****				***** LARVAE *****				2	
06611 1966		NUMBER LENGTHS (MM)				NUMBER LENGTHS (MM)				NO. PER 10M	
STA. 0 M SPECIES ANALYZED		TOTAL MEAS. MEAN RANGE MEAS. EGGS				TOTAL MEAS. MEAN RANGE MEAS. EGGS				LARVAE	
C 2 17 09		SAMPLING DEPTH 0-15M									
ENGFAULIS EURYSTOE		5	5	6.3	3.0-18.1 TL					1.5	
UROPHYCIS SP.		34	7	2.3	1.2- 4.5 NL					10.3	
MERLUCCIIUS BILINEARIS		5	3	2.7	2.6- 2.8 NL	0				1.5	0.0
TAUTOGA UNITIS		4	4	3.0	2.6- 3.7 TL					1.2	
PRIONOTUS CARLINIUS		2	2	3.9	3.4- 4.4 SL					0.6	
CITHARICHTHYS ARCTIFRONS		7	7	6.3	5.3- 7.2 SL					2.1	
PARALICHTHYS CENTATUS		1				0				0.3	0.0
HIPPOGLOSSINA OBLONGUS		3	3	2.9	2.7- 3.2 SL					0.9	
SCOPHTHALMUS AQUOSUS		1	1	2.7	SL					0.3	
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED									
C 3 17 09		SAMPLING DEPTH C-15M				SAMPLING DEPTH 18-24M					
ENGFAULIS EURYSTOE		2	2	12.0	8.6-15.4 TL					0.8	
ENCYCLYOPUS CIMBRIUS						0	1	1	8.7	0.2	0.0
UROPHYCIS SP.		87	24	4.2	2.0- 6.2 NL	56	57	22	3.0	35.9	18.1
MERLUCCIIUS BILINEARIS										0.0	
TAUTOGLABRUS ADSPERSUS		1	1	5.2	TL					0.3	
PEPRILUS TRIACANTHUS		1	1	3.4	SL					0.3	
PRIONOTUS CARLINIUS		2	2	3.5	3.5- 3.5 SL		4	4	3.8	1.3	
CITHARICHTHYS ARCTIFRONS		14	14	7.7	5.7-13.7 SL		4	4	10.1	4.9	
ETROPUS MICROSTOMIUS						0	2	2	6.7	0.3	
PARALICHTHYS CENTATUS							4	4	3.3	0.6	0.0
HIPPOGLOSSINA OBLONGUS							1	1	2.3	0.2	
SCOPHTHALMUS AQUOSUS		1	1	2.8	SL					0.3	
ADDITIONAL LARVAE CAUGHT		UNIDENTIFIED									
C 4 17 09		SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
PISCODONOPHIS CRUENTIFER							1	1	5.0	0.3	
ENCYCLYOPUS CIMBRIUS						0	23	23	4.7	7.7	0.0
UROPHYCIS SP.		622	34	3.3	1.7- 5.1 NL	8	929	32	3.6	496.2	
MERLUCCIIUS BILINEARIS		1	1	4.4	NL		312	300	4.2	164.3	3.7
PEPRILUS TRIACANTHUS		44	44	2.9	2.0- 3.8 SL		2	2	2.9	14.7	
PRIONOTUS CARLINIUS							2	2	3.0	0.7	
CITHARICHTHYS ARCTIFRONS		61	25	6.1	3.7-11.5 SL		398	25	5.9	151.0	
PARALICHTHYS CENTATUS						0	1	1	4.5	0.3	0.0
HIPPOGLOSSINA OBLONGUS		11	11	4.4	3.2- 7.0 SL		4	4	5.5	4.6	
SCOPHTHALMUS AQUOSUS		11	2	4.0	3.7- 4.2 SL					3.7	
ADDITIONAL LARVAE CAUGHT		OPHIIDIAE STROMATEIDAE UNIDENTIFIED				UNIDENTIFIED					
C 5 17 09		SAMPLING DEPTH C-15M				SAMPLING DEPTH 18-33M					
ENGFAULIS EURYSTOE		2	2	12.8	12.1-13.5 TL		1	1	12.5	0.9	
ENCYCLYOPUS CIMBRIUS						0	20	20	5.1	6.7	0.0
UROPHYCIS SP.		1315	40	3.3	1.9- 5.8 NL		125	28	4.0	428.3	
MERLUCCIIUS BILINEARIS		8	7	3.0	2.5- 4.5 NL	16	157	157	6.9	54.7	5.3
PEPRILUS TRIACANTHUS		6	6	5.5	2.9-17.8 SL					2.0	
CITHARICHTHYS ARCTIFRONS		100	25	6.7	4.5-13.2 SL		57	25	7.0	62.3	
HIPPOGLOSSINA OBLONGUS		39	37	4.5	2.5- 6.0 SL		7	7	5.6	14.0	
SCOPHTHALMUS AQUOSUS		1	1	3.2	SL					0.3	
GLYPTOCEPHALUS CYNOGLOSSUS							2	2	21.5	0.7	
ADDITIONAL LARVAE CAUGHT		OPHIIDIAE STROMATEIDAE UNIDENTIFIED				OPHIIDIAE STROMATEIDAE UNIDENTIFIED					
C 6 17 09		SAMPLING DEPTH C-15M				SAMPLING DEPTH 18-33M					
LECFIUS AMERICANUS							4	4	6.8	1.3	
ENCYCLYOPUS CIMBRIUS						0	58	26	4.3	19.3	0.3
UROPHYCIS SP.		1625	25	3.6	2.0- 5.5 NL		961	30	4.4	107.8	
MERLUCCIIUS BILINEARIS						0	208	207	5.6	69.3	7.7
PEPRILUS TRIACANTHUS		1	1	3.0	SL					0.3	
CITHARICHTHYS ARCTIFRONS		170	25	5.4	3.1-13.6 SL		639	25	5.5	264.0	
HIPPOGLOSSINA OBLONGUS		23	22	5.1	2.9- 6.9 SL		8	8	5.4	9.6	
LIMANDA FERRUGINEA							2	2	13.7	0.7	
ADDITIONAL LARVAE CAUGHT		OPHIIDIAE STROMATEIDAE UNIDENTIFIED									
C 7 17 09		SAMPLING DEPTH C-15M				SAMPLING DEPTH 18-33M					
ENGFAULIS EURYSTOE		2	2	12.9	12.5-13.3 TL		1	1	14.1	0.9	
LECFIUS AMERICANUS		4	4	8.4	3.9-13.9 TL		10	10	6.1	4.5	
ENCYCLYOPUS CIMBRIUS		1	1	2.5	SL	0	28	27	3.4	9.6	0.0
UROPHYCIS SP.		965	26	2.9	1.2- 4.9 NL		687	28	3.9	518.4	
MERLUCCIIUS BILINEARIS		13	12	12.3	3.1-22.5 NL	0	351	345	8.5	120.9	0.0
ALXIS SP.		1	1	13.5	SL					0.3	
PEPRILUS TRIACANTHUS		1	1	8.2	SL					0.3	
RCHUS OCELLATUS		1	1	15.4	SL					0.3	
CITHARICHTHYS ARCTIFRONS		13	12	6.9	2.2-13.6 SL		137	25	7.9	49.6	
MCNELENE SESSILICAUDA		1	1	19.3	SL					0.3	
HIPPOGLOSSINA OBLONGUS		33	33	5.1	2.7- 7.5 SL		22	22	4.7	17.2	
GLYPTOCEPHALUS CYNOGLOSSUS							1	1	18.2	0.3	
ADDITIONAL LARVAE CAUGHT		OPHIIDIAE				OPHIIDIAE					

TABLE 3. (continued)

CRUISE DATE 06611 1966 STA. 04 SPECIES ANALYZED C 1 17 09	***** LARVAE *****					***** LARVAE *****					2	
	NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS	NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS	NO. PER 10M ²	EGGS
TOTAL MEAS. MEAN RANGE MEAS. EGGS	TOTAL MEAS. MEAN RANGE MEAS. EGGS	TOTAL MEAS. MEAN RANGE MEAS. EGGS	TOTAL MEAS. MEAN RANGE MEAS. EGGS	TOTAL MEAS. MEAN RANGE MEAS. EGGS	TOTAL MEAS. MEAN RANGE MEAS. EGGS	TOTAL MEAS. MEAN RANGE MEAS. EGGS	TOTAL MEAS. MEAN RANGE MEAS. EGGS	TOTAL MEAS. MEAN RANGE MEAS. EGGS	TOTAL MEAS. MEAN RANGE MEAS. EGGS	TOTAL MEAS. MEAN RANGE MEAS. EGGS	TOTAL MEAS. MEAN RANGE MEAS. EGGS	TOTAL MEAS. MEAN RANGE MEAS. EGGS
SAMPLING DEPTH 0-15M	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 18-23M	SAMPLING DEPTH 18-23M	SAMPLING DEPTH 18-23M	SAMPLING DEPTH 18-23M	SAMPLING DEPTH 18-23M	SAMPLING DEPTH 18-23M	SAMPLING DEPTH 18-23M
ENGRAULIS EURYSTOLE	1	1	29.9	TL							0.3	
CEPHALOSCYLLUS MAINEENSIS	1	1	10.7	SL							0.3	
DIAPHUS SP.						4	4	8.9	7.9- 9.7	SL	1.3	
LEPHIUS AMERICANUS	1	1	6.5	TL							0.3	
UPHRYCHIS SP.	23	9	3.6	2.0- 5.1	NL	137	28	4.9	3.8- 6.0	NL	52.6	
MERLUCCIIUS BILINEARIS	2	2	8.2	7.9- 8.6	NL	2	2	9.7	9.4-10.0	NL	1.3	0.0
PERCILIUS TRIACANTHUS	1	1	35.0	SL							0.3	
CITHARICHTHYS ARCTIFRONS	1	1	10.0	SL		11	10	7.9	5.3-12.3	SL	4.0	
HIPPOGLOSSINA OBLIQUUS						4	4	5.6	4.2- 6.6	SL	1.3	
SCOPHTHALMUS AQUOSUS						1	1	2.5		SL	0.3	
ADDITIONAL LARVAE CAUGHT					OPHIOTRACHE							
					CALLIONYMIDAE							
					UNIDENTIFIED							
C 1 19 09	SAMPLING DEPTH C- 6M											
ENGRAULIS EURYSTOLE	62	13	4.5	1.7- 6.6	TL						7.5	
ECHINOCYPRUS CIMBRIUS	1	1	1.7		SL	0					0.1	0.0
UPHRYCHIS SP.	29	11	2.3	1.6- 3.7	NL						3.5	
CENTROPOMUS STRIATA	1	1	5.4		SL						0.1	
PERCILIUS TRIACANTHUS	3	3	4.0	3.0- 5.3	SL						0.4	
PERCNOTUS CARLINUS	111	21	2.8	2.2- 3.8	SL						13.5	
CITHARICHTHYS ARCTIFRONS	1	1	5.2		SL						0.1	
HIPPOGLOSSINA OBLIQUUS	5	4	3.4	3.1- 3.7	SL						0.6	
SCOPHTHALMUS AQUOSUS	9	9	2.7	2.5- 3.0	SL						1.1	
ADDITIONAL LARVAE CAUGHT					STROMATEIDAE							
					UNIDENTIFIED							
C 2 19 09	SAMPLING DEPTH C- 6M											
ENGRAULIS EURYSTOLE	47	47	4.3	1.7- 6.5	TL						5.7	
UPHRYCHIS SP.	14	10	2.3	1.4- 2.8	NL						1.7	
MERLUCCIIUS BILINEARIS	1	1	3.6		NL	0					0.1	0.0
PERCNOTUS CARLINUS	18	18	3.8	2.7- 5.0	SL						2.2	
CITHARICHTHYS ARCTIFRONS	1	1	5.1		SL						0.1	
HIPPOGLOSSINA OBLIQUUS	2	2	2.6	2.4- 2.7	SL						0.2	
SCOPHTHALMUS AQUOSUS	7	7	2.9	2.2- 3.7	SL						0.8	
ADDITIONAL LARVAE CAUGHT					UNIDENTIFIED							
C 3 19 09	SAMPLING DEPTH C-15M											
ENGRAULIS EURYSTOLE	10	9	4.9	2.2- 7.2	TL						3.0	
UPHRYCHIS SP.	137	32	2.0	1.2- 4.0	NL						41.5	
MERLUCCIIUS BILINEARIS	7	5	2.8	2.2- 4.0	NL	0					2.1	0.0
PERCNOTUS CARLINUS	1	1	4.0		SL						0.3	
PERCILIUS TRIACANTHUS	2	2	3.7	3.6- 3.9	SL						0.6	
PERCNOTUS CARLINUS	6	6	2.3	1.4- 2.9	SL						1.8	
CITHARICHTHYS ARCTIFRONS	2	2	2.8	2.7- 2.9	SL						0.6	
PARALICHTHYS CENTATUS	3	3	3.5	3.3- 3.6	SL	0					0.9	0.0
HIPPOGLOSSINA OBLIQUUS	4	2	3.5	3.2- 3.8	SL						1.2	
SCOPHTHALMUS AQUOSUS	4	4	2.7	2.5- 2.9	SL						1.2	
ADDITIONAL LARVAE CAUGHT					SYNGNATHIDAE							
					STROMATEIDAE							
					UNIDENTIFIED							
C 4 19 09	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M						
ENGRAULIS EURYSTOLE	30	25	6.2	2.9- 22.5	TL	1	1	12.1		TL	9.7	
ECHINOCYPRUS CIMBRIUS	2	2	2.3	2.2- 2.3	SL	0	1	3.3		SL	0.8	0.0
UPHRYCHIS SP.	99	23	3.3	2.1- 6.0	NL		32	18	2.3	1.5- 3.2	NL	25.6
MERLUCCIIUS BILINEARIS	12	11	3.4	2.6- 4.2	NL	0	11	11	2.8	2.2- 4.2	NL	5.5
PERCILIUS TRIACANTHUS	6	6	5.0	3.4- 11.3	SL		4	4	3.2	2.1- 3.9	SL	2.5
PERCNOTUS CARLINUS	17	17	2.9	1.9- 4.1	SL		4	4	3.0	2.5- 4.0	SL	5.9
CITHARICHTHYS ARCTIFRONS	15	13	3.9	3.1- 4.8	SL	0	11	8	3.2	3.2- 5.9	SL	6.4
PARALICHTHYS CENTATUS	1	1	3.4		SL		2	2	3.2	2.9- 3.6	SL	0.6
HIPPOGLOSSINA OBLIQUUS	30	27	3.6	2.5- 7.6	SL		1	1	2.9		SL	9.7
SCOPHTHALMUS AQUOSUS	4	4	3.7	2.6- 5.4	SL		5	5	2.9	2.7- 3.3	SL	2.0
ADDITIONAL LARVAE CAUGHT					UNIDENTIFIED							

STATION DATE		***** LARVAE *****					***** LARVAE *****					***** LARVAE *****	
STA.	D M	SPECIES ANALYZED	NUMBER	LENGTHS (MM)	NO.	NUMBER	LENGTHS (MM)	NO.	NUMBER	LENGTHS (MM)	NO.	PER 10M	
C 9	1R 09		TOTAL MEAS.	RANGE	EGGS	TOTAL MEAS.	RANGE	EGGS	TOTAL MEAS.	RANGE	EGGS	EGGS	
			SAMPLING DEPTH	0-15M		SAMPLING DEPTH	18-33M		SAMPLING DEPTH	18-33M			
		ENGRAULIS EURYSTOIE	14	14 8.2 5.7-16.3 TL								4.7	
		ECHINYOPLUS CIMBRIUS	4	2 2.5 2.3- 2.7 SL	6	14	14 3.8 2.5- 5.7 SL	0				5.9	
		UROPHYCIS SP.	704	33 3.5 1.8- 6.4 NL		179	31 5.0 1.9-10.7 NL					270.8	
		MERLUCCIIUS BILINEARIS	25	22 3.8 2.6- 5.9 NL	0	136	130 4.5 2.6-11.2 NL	0				52.8	
		POMATOMUS SALTATRIX	1	1 6.7 SL								0.3	
		TAUTOGLABRUS AOSPERSUS	2	2 7.2 5.9- 8.5 TL		4	4 5.0 8.6- 5.4 TL					1.9	
		PEPRILUS TRIACANTHUS	23	22 4.6 2.0-12.5 SL		2	2 4.3 3.1- 5.1 SL					7.7	
		PLEUROTUS CARLINUS	28	28 4.1 2.5- 7.9 SL		3	3 4.3 3.7- 5.3 SL					9.4	
		CITHARICHTHYS ARCTIFRENS	10	10 6.6 3.4-11.2 SL		16	16 6.0 3.7-10.4 SL					8.3	
		ETRCPUUS MICROSTOMUS	9	8 6.2 4.6- 5.7 SL		2	2 6.4 5.6- 7.1 SL					3.4	
		PARALICHTHYS CENTAUS	6	6 4.3 3.2- 5.1 SL	0			0				2.0	
		HIPPUGLOSSINA OBLONGUS	49	45 4.8 3.2- 6.8 SL		18	18 5.9 3.5- 9.8 SL					20.7	
		SCOPHTHALMUS AQUOSUS	10	9 3.8 3.4- 4.2 SL		1	1 3.5 SL					3.3	
		ADDITIONAL LARVAE CAUGHT		CARANGIDAE STROMATEIDAE UNIDENTIFIED									
.....													
D 6	1R 09		SAMPLING DEPTH	0-15M		SAMPLING DEPTH	18-33M						
		PISCODONOPHIS CRUENTIFER	1	1 53.4 TL								0.3	
		ENGAULIS EURYSTOIE	9	9 13.2 10.8-16.5 TL		1	1 11.6 TL					3.0	
		LORPHIUS AMERICANUS				11	11 5.7 4.7- 5.4 TL					3.7	
		ECHINYOPLUS CIMBRIUS	4	3 4.7 2.7- 8.5 SL	0	11	8 5.0 2.3- 8.9 SL	0				4.9	
		UROPHYCIS SP.	759	30 4.4 2.1- 7.1 NL		191	30 4.6 2.8-11.2 NL					251.3	
		MERLUCCIIUS BILINEARIS	22	22 6.0 4.1- 8.8 NL	0	372	363 5.5 3.1-12.2 NL	0				130.6	
		PEPRILUS TRIACANTHUS	5	5 2.9 2.8- 3.0 SL		2	2 2.5 2.5- 3.3 SL					2.2	
		CITHARICHTHYS ARCTIFRENS	151	25 5.9 4.2- 9.4 SL		96	25 6.6 3.2-11.5 SL					77.3	
		HIPPUGLOSSINA OBLONGUS	18	18 4.6 3.1- 6.8 SL		11	11 5.3 4.4- 5.8 SL					9.1	
		GLYPTOCEPHALUS CYNOGLOSSUS				1	1 22.1 SL					0.3	
		ADDITIONAL LARVAE CAUGHT		OPHIIDIIDAE LABRIDAE OR SCARIDAE									
.....													
D 7	1R 09		SAMPLING DEPTH	0-15M		SAMPLING DEPTH	18-33M						
		ENGAULIS EURYSTOIE	1	1 19.6 TL								0.3	
		LORPHIUS AMERICANUS				5	5 6.7 4.6- 8.1 TL					1.7	
		ECHINYOPLUS CIMBRIUS	1	1 2.6 SL	0	15	15 3.6 2.4- 5.8 SL	1				5.3	
		UROPHYCIS SP.	470	18 3.8 1.5- 4.9 NL		71	15 4.9 2.2- 8.0 NL					144.7	
		MERLUCCIIUS BILINEARIS	1	1 8.8 NL	0	61	61 7.0 3.5-10.2 NL	0				20.6	
		PEPRILUS TRIACANTHUS	2	2 3.1 2.7- 3.5 SL								0.7	
		CITHARICHTHYS ARCTIFRENS	86	25 5.3 2.8- 8.2 SL		77	25 10.3 4.8-14.0 SL					51.5	
		HIPPUGLOSSINA OBLONGUS	4	3 5.3 2.9- 4.5 SL		16	16 5.3 2.9- 6.3 SL					6.5	
		GLYPTOCEPHALUS CYNOGLOSSUS				1	1 15.4 SL					0.3	
		ADDITIONAL LARVAE CAUGHT		OPHIIDIIDAE UNIDENTIFIED									
.....													
D 9	1R 09		SAMPLING DEPTH	0-15M		SAMPLING DEPTH	18-33M						
		CERATOSCOPELUS MADEFENSIS	2	2 8.5 8.8- 9.0 SL		7	7 10.9 8.8-13.8 SL					2.9	
		LORPHIUS AMERICANUS				4	4 5.7 4.2- 8.5 TL					1.3	
		ECHINYOPLUS CIMBRIUS			0	8	8 2.6 2.7- 7.0 SL	0				2.7	
		UROPHYCIS SP.	87	21 5.1 2.9- 9.5 NL		163	31 4.8 2.5- 9.9 NL					80.4	
		MERLUCCIIUS BILINEARIS			0	56	55 5.1 6.5-12.7 NL	0				18.7	
		PEPRILUS TRIACANTHUS	1	1 26.5 SL								0.3	
		CITHARICHTHYS ARCTIFRENS	27	27 7.8 3.0-14.2 SL		18	17 7.5 3.7-13.3 SL					14.1	
		HIPPUGLOSSINA OBLONGUS	4	4 4.7 3.2- 5.6 SL		11	11 5.8 5.0- 6.2 SL					4.9	
		SCOPHTHALMUS AQUOSUS	2	2 2.8 2.7- 2.5 SL								0.7	
		ADDITIONAL LARVAE CAUGHT		OPHIIDIIDAE Gobiidae Tetraodontidae			PARALEPIOIDAE OPHIIDIIDAE Gobiidae						

CRUISE DATE C6612 1966		***** LARVAE *****					***** LARVAE *****					NO. PER 10 ⁴ EGGS	
STA.	D M	SPECIES ANALYZED	NUMBER	LENGTHS (MM)	MEAS.	NO. EGGS	NUMBER	LENGTHS (MM)	MEAS.	NO. EGGS	AD. LARVAE	PER 10 ⁴ EGGS	
A 1	15 10		TOTAL MEAS.	MEAN RANGE	MEAS.		TOTAL MEAS.	MEAN RANGE	MEAS.				
			SAMPLING DEPTH	C- 6M									
		UROCHYCHIS SP.	1	1	3.6	NL					0.1		
		MERLUCCIIUS BILINEARIS	3	2	3.4	3.1- 3.7	NL			0	0.4	0.0	
		PARALICHTHYS DENTATUS	2	2	4.6	3.0- 6.2	SL			4	0.2	0.5	
		SCOPHTHALMUS AQUOSUS	1	1	3.3		SL				0.1		
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											
			SAMPLING DEPTH	0-15M			SAMPLING DEPTH	18-24M					
		BREVORTIA TYRANNUS	1	1	8.0		TL				1.0		
		ENCHEL YOPUS CIMBRIUS	1	1	3.8		SL			0	1.3	0.0	
		UROCHYCHIS SP.									0.3		
		MERLUCCIIUS BILINEARIS	16	15	4.2	3.2- 5.8	NL			0	9.9	0.0	
		PARALICHTHYS DENTATUS	2	2	5.2	4.7- 5.7	SL			6	4.7	2.8	
		SCOPHTHALMUS AQUOSUS	1	1	4.4		SL				0.3		
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											
			SAMPLING DEPTH	0-15M			SAMPLING DEPTH	18-23M					
		ENCHEL YOPUS CIMBRIUS								0	2.0	0.0	
		UROCHYCHIS SP.	1	1	12.5		NL				0.3		
		MERLUCCIIUS BILINEARIS	8	8	4.7	2.8- 6.7	NL			0	14.7	0.3	
		PRIONOTUS CARLINUS									0.3		
		PARALICHTHYS DENTATUS	3	3	4.8	4.2- 5.4	SL			0	5.6	1.0	
		SCOPHTHALMUS AQUOSUS	1	1	2.8		SL				0.6		
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											
			SAMPLING DEPTH	0-15M			SAMPLING DEPTH	18-33M					
		BREVORTIA TYRANNUS	1	1	9.3		TL				0.3		
		ENCHEL YOPUS CIMBRIUS	14	13	3.4	2.5- 4.1	SL			0	4.7	0.3	
		MERLUCCIIUS BILINEARIS	105	102	3.5	2.3- 6.9	NL			31	13.5	30.2	
		PARALICHTHYS DENTATUS	34	34	4.0	2.7- 5.4	SL			1	17.9	0.3	
		SCOPHTHALMUS AQUOSUS	12	11	3.3	2.2- 4.3	SL				7.9		
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											
			SAMPLING DEPTH	0-15M			SAMPLING DEPTH	18-33M					
		ENCHEL YOPUS CIMBRIUS								4	0.0	2.2	
		UROCHYCHIS SP.	79	11	3.5	2.2- 4.6	NL				32.7		
		MERLUCCIIUS BILINEARIS	6	6	3.1	2.7- 3.7	NL			12	26.1	95.3	
		CITHARICHTHYS ARCTIFRONS	1	1	5.7		SL				1.3		
		PARALICHTHYS DENTATUS	49	46	4.6	3.6- 7.5	SL			0	34.4	0.0	
		SCOPHTHALMUS AQUOSUS	16	16	4.3	3.3- 5.3	SL				10.1		
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											
		BLENNIIDAE UNIDENTIFIED											
			SAMPLING DEPTH	0-15M			SAMPLING DEPTH	18-33M					
		LOPHIUS AMERICANUS	1	1	7.6		TL				1.0		
		ENCHEL YOPUS CIMBRIUS								0	0.0	1.7	
		UROCHYCHIS SP.	34	25	4.4	2.4- 6.6	NL				18.9		
		MERLUCCIIUS BILINEARIS	8	8	5.5	3.1-11.5	NL			1	66.1	1.0	
		CITHARICHTHYS ARCTIFRONS									1.0		
		PARALICHTHYS DENTATUS	3	3	5.5	3.2- 6.8	SL			0	2.6	0.0	
		SCOPHTHALMUS AQUOSUS	4	4	6.0	4.2- 9.5	SL				2.5		
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											
			SAMPLING DEPTH	0-15M			SAMPLING DEPTH	18-33M					
		LOPHIUS AMERICANUS									0.3		
		UROCHYCHIS SP.	52	10	10.6	6.8-16.0	NL				28.6		
		MERLUCCIIUS BILINEARIS	2	2	9.9	3.0-16.8	NL			0	13.9	0.0	
		CITHARICHTHYS ARCTIFRONS									0.7		
		PARALICHTHYS DENTATUS	1	1	3.5		SL			0	0.3	0.0	
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											
		DPHIIDAE Gobiidae											
			SAMPLING DEPTH	C- 6M									
		ANCHOA MITCHELLI	8	8	35.6	29.1-45.1	TL				1.0		
		MERLUCCIIUS BILINEARIS								2	0.0	0.2	
		PARALICHTHYS DENTATUS	2	2	4.1	3.5- 4.7	SL			0	0.2	0.0	
		SCOPHTHALMUS AQUOSUS	4	4	3.9	3.7- 4.1	SL				0.5		
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											
			SAMPLING DEPTH	0-15M			SAMPLING DEPTH	18-24M					
		BREVORTIA TYRANNUS	15	15	13.7	6.9-18.7	TL				6.1		
		ENCHEL YOPUS CIMBRIUS								0	0.6	0.0	
		UROCHYCHIS SP.	1	1	5.0		NL				0.3		
		MERLUCCIIUS BILINEARIS	1	1	2.8		NL			6	1.0	4.1	
		PRIONOTUS CARLINUS									0.2		
		CITHARICHTHYS ARCTIFRONS	1	1	16.6		SL				0.8		
		PARALICHTHYS DENTATUS	4	4	5.9	4.2- 7.3	SL			0	5.3	0.5	
		SCOPHTHALMUS AQUOSUS	6	6	3.7	2.7- 5.5	SL			6	2.8		
		ADDITIONAL LARVAE CAUGHT UNIDENTIFIED											

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CRUISE DATE	STA.	D.Y.	SPECIES ANALYZED	***** LARVAE *****					***** LARVAE *****					NO. PER 1CM	
				NUMBER	LENGTHS (MM)	NO.		NUMBER	LENGTHS (MM)	NO.		LARVAE	EGGS		
				TOTAL MEAS.	MEAN	RANGE	MEAS.	TOTAL MEAS.	MEAN	RANGE	MEAS.				
				SAMPLING DEPTH	0-15M			SAMPLING DEPTH	16-33M						
B 3	14	10	BREVORTIA TYRANNUS	24	22	11.7	4.4-18.7 TL	31	27	5.9	4.0-11.1 TL		17.5		
			ANCHOA HEPSETUS	1	1	23.7	TL						0.3		
			ENCHELIOPLUS CIMBRIUS	1	1	3.9	SL	13	13	4.0	2.7-5.0 SL	0	4.6		
			UROPHYCIS SP.	3	3	20.1	16.0-23.6 NL	2	2	15.7	16.5-23.0 NL		1.6		
			MERLUCCIIUS BILINEARIS	1	1	3.3	NL	19	19	4.4	2.2-6.8 NL	19	6.6		
			PRIENOTUS CAROLINUS	10	10	4.3	3.0-6.1 SL	4	4	4.7	3.0-6.1 SL		4.3		
			CITHARICHTHYS ARCTIFRONS					1	1	11.2	SL		0.3		
			EUPREPES MICROSTOMUS					2	2	4.8	4.3-5.3 SL		0.7		
			PARALICHTHYS DENTATUS	2	2	8.0	7.8-8.3 SL	71	69	4.0	2.9-8.8 SL	6	24.3		
			SCOPHTHALMUS AQUOSUS	6	6	3.9	3.0-7.5 SL	9	8	4.2	2.6-6.2 SL		4.8		
			ADDITIONAL LARVAE CAUGHT												
										</					

[illegible]

TABLE 3. (continued)

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CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2	
STA. D M SPECIES ANALYZED		NUMBER		LENGTHS (MM)		NO. EGGS	NUMBER		LENGTHS (MM)		NO. EGGS	NO. PER 10M	
C P 13 10		TOTAL MEAS.		MEAN RANGE			TOTAL MEAS.		MEAN RANGE			LARVAE	
		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-23M						
UROPHYCIS SP.		1	1	11.3		NL	8	8	10.1	4.6-14.3	NL	0	3.0
MERLUCCIIUS BILINEARIS		1	1	19.8		NL	1	1	12.8		NL	0	0.6
ADDITIONAL LARVAE CAUGHT		OPHIIDIDAE					OPHIIDIDAE						
.....													
C 1 06 10		SAMPLING DEPTH 0-6M											
BREVOORTIA TYRANNUS		2	2	7.6	5.1-10.2	TL						0.2	
UROPHYCIS SP.		3	2	2.9	1.5-4.3	NL						0.4	
MERLUCCIIUS BILINEARIS		1	1	2.7		NL	0					0.1	C. C
PRIONOTUS CARLINIUS		27	27	3.6	2.4-5.5	SL						3.3	
PARALICHTHYS DENTATUS		6	5	3.1	2.7-3.4	SL	1					0.7	C. 1
HIPPOGLOSSINA OBLONGUS		1	1	3.2		SL						0.1	
SCOPHTHALMUS AQUOSUS		16	16	3.3	2.2-6.1	SL						1.9	
ADDITIONAL LARVAE CAUGHT		OPHIIDIDAE											
		STROMATEICAE											
.....													
D 2 06 10		SAMPLING DEPTH 0-6M											
BREVOORTIA TYRANNUS		5	5	6.9	4.4-8.7	TL						0.6	
UROPHYCIS SP.		3	2	2.9	2.9-3.0	NL						0.4	
PRIONOTUS CARLINIUS		187	25	3.3	1.7-5.0	SL						22.7	
PARALICHTHYS DENTATUS		7	7	3.2	2.9-3.8	SL	2					0.8	C. 2
SCOPHTHALMUS AQUOSUS		92	50	3.2	2.2-4.7	SL						11.2	
ADDITIONAL LARVAE CAUGHT		OPHIIDIDAE											
		SYNGNATHIDAE											
.....													
C 3 05 10		SAMPLING DEPTH 0-15M											
BREVOORTIA TYRANNUS		89	33	6.9	4.1-10.1	TL						27.0	
ENGRAULIS EURYSTOIE		15	14	8.7	7.1-10.7	TL						4.5	
ENCYCLYOPUS CIMBRIUS		2	2	3.1	2.8-3.3	SL	0					0.6	0.0
UROPHYCIS SP.		115	21	3.5	2.1-5.5	NL						34.8	
MERLUCCIIUS BILINEARIS		3	3	7.1	6.9-7.4	NL	0					0.9	C. C
PEPRILUS TRIACANTHUS		13	13	3.7	2.3-7.5	SL						3.9	
PRIONOTUS CARLINIUS		830	29	3.4	1.8-4.8	SL						21.5	
CITHARICHTHYS ARCTIFRONS		1	1	12.2		SL						0.3	
ETREPOS MICROSTOMUS		7	7	3.7	3.0-4.9	SL						2.1	
PARALICHTHYS DENTATUS		100	58	4.1	2.8-6.4	SL	27					30.3	B. 2
HIPPOGLOSSINA OBLONGUS		7	7	5.3	4.2-6.2	SL						2.1	
SCOPHTHALMUS AQUOSUS		453	50	3.4	2.4-4.9	SL						137.3	
ADDITIONAL LARVAE CAUGHT		OPHIIDIDAE											
		SERRANIDAE											
		UNIDENTIFIED											
.....													
C 4 12 10		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M						
BREVOORTIA TYRANNUS		24	17	8.1	4.7-12.8	TL	105	41	6.8	4.7-12.8	TL		24.3
ENGRAULIS EURYSTOIE		3	2	9.8	9.0-10.6	TL	3	2	1.5	7.4-10.2	TL		1.4
ENCYCLYOPUS CIMBRIUS		1	1	4.3		SL	0					0.3	0.0
UROPHYCIS SP.		36	23	3.2	1.7-6.0	NL		68	19	3.2	1.6-5.7	NL	22.0
MERLUCCIIUS BILINEARIS							0	1	15.0		NL	2	0.2
PRIONOTUS CARLINIUS								2	3.6	3.3-4.0	SL		0.3
PEPRILUS TRIACANTHUS		1	1	5.8		SL		16	16	3.5	1.8-10.4	SL	2.9
PRIONOTUS CARLINIUS		145	28	2.5	1.1-5.4	SL		151	22	3.4	1.8-5.4	SL	68.9
CITHARICHTHYS ARCTIFRONS								5	5	5.1	3.5-6.7	SL	0.8
ETREPOS MICROSTOMUS		3	3	3.7	2.4-5.3	SL		8	8	4.0	3.0-5.3	SL	2.2
PARALICHTHYS DENTATUS		29	29	4.4	2.6-6.5	SL	39	59	55	4.4	3.0-5.9	SL	64
HIPPOGLOSSINA OBLONGUS								8	3	3.6	3.2-3.5	SL	1.3
SCOPHTHALMUS AQUOSUS		122	50	3.5	2.2-4.4	SL		121	50	3.4	2.7-4.9	SL	57.0
ADDITIONAL LARVAE CAUGHT		OPHIIDIDAE					OPHIIDIDAE						
		UNIDENTIFIED					SERRANIDAE						
		UNIDENTIFIED					UNIDENTIFIED						
.....													
D 5 12 10		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M						
BREVOORTIA TYRANNUS		11	10	7.8	5.0-10.0	TL		50	50	6.5	3.1-12.5	TL	11.5
ENGRAULIS EURYSTOIE		2	2	6.3	5.8-6.8	TL	0	2	2	10.9	10.0-11.9	TL	0.9
ENCYCLYOPUS CIMBRIUS								1	1	2.4		SL	0.2
UROPHYCIS SP.		23	12	4.1	2.9-5.5	NL		56	24	3.8	1.7-7.5	NL	16.1
MERLUCCIIUS BILINEARIS		1	1	6.2		NL	1	4	4	6.1	4.6-8.3	NL	30
CENTROPOMUS STRIATA		1	1	5.0		SL		1	1	7.1		SL	0.5
PEPRILUS TRIACANTHUS		2	2	16.5	4.5-28.6	SL		2	2	5.1	5.0-13.3	SL	0.9
PRIONOTUS CARLINIUS		46	41	4.1	2.4-5.4	SL		107	23	3.5	1.5-5.5	SL	31.4
CITHARICHTHYS ARCTIFRONS		1	1	3.8		SL		5	4	3.8	3.1-4.6	SL	1.1
ETREPOS MICROSTOMUS								17	14	5.1	2.7-8.6	SL	2.7
PARALICHTHYS DENTATUS		11	9	4.8	3.7-6.4	SL	32	53	47	4.1	2.8-7.9	SL	55
SCOPHTHALMUS AQUOSUS		20	19	4.0	2.7-6.0	SL		91	83	3.2	2.2-6.1	SL	20.8
ADDITIONAL LARVAE CAUGHT		TRIGLICAE					UNIDENTIFIED						
		UNIDENTIFIED											

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CRUISE DATE	STATION	SPECIES ANALYZED	NUMBER	LENGTHS (MM)	NO. EGGS	NUMBER	LENGTHS (MM)	NO. EGGS	NO. PER 10 ³ EGGS
STA. D M			TOTAL MEAS.	MEAN RANGE MEAS.		TOTAL MEAS.	MEAN RANGE MEAS.		LARVAE
0 6	12 10		SAMPLING DEPTH 0-15M			SAMPLING DEPTH 1E-33M			
		BREVOORTIA TYRANNUS	17	17 12.0 9.3-13.7 TL		11	11 11.4 9.5-13.0 TL		8.8
		ENGRAULIS EURYSTOE	7	7 9.9 9.0-11.1 TL		2	2 9.8 9.0-10.7 TL		2.8
		ENCHELIOPLIS CIMBRICUS	1	1 4.4 SL	0			0	0.3
		UFOPHYCIS SP.	863	27 4.2 2.3- 7.9 NL		118	28 4.1 2.4- 7.1 NL		298.2
		MERLUCCIIUS BILINEARIS	125	121 6.2 2.5-18.3 NL	8	135	131 6.5 1.6-17.7 NL	3	12.5
		PEPRILUS TRIACANTHUS	25	25 5.3 3.7- 9.5 SL		4	4 6.9 5.2- 7.7 SL		8.8
		PRICNOTUS CARLINIUS	20	20 4.2 2.6- 5.5 SL		4	4 4.2 3.5- 4.6 SL		7.3
		CITHARICHTHYS ARCTIFRONS	130	25 7.0 4.2- 9.4 SL		130	25 7.1 3.5-13.5 SL		12.3
		PARALICHTHYS DENTATUS	16	16 5.8 5.0- 7.6 SL	1	12	12 5.7 4.6- 7.0 SL	0	8.8
		HIPPOGLOSSINA OBLONGUS	11	10 5.2 3.2- 6.2 SL		3	3 7.1 6.2- 7.7 SL		4.3
		SCOPHTHALMUS AQUOSUS	4	3 5.2 4.1- 5.9 SL		15	15 5.5 3.3- 6.7 SL		6.2
		ADDITIONAL LARVAE CAUGHT		OPHIOIDAE CORYPHAENIDAE STROMATEIDAE UNIDENTIFIED			STROMATEIDAE UNIDENTIFIED		
0 7	12 10		SAMPLING DEPTH 0-15M			SAMPLING DEPTH 1E-33M			
		ENGRAULIS EURYSTOE	1	1 10.6 TL					0.3
		LOPHIUS AMERICANUS	1	1 5.4 TL		1	1 5.7 TL		0.6
		ENCHELIOPLIS CIMBRICUS	2	1 3.7 SL	0	1	1 2.8 SL	0	0.9
		UFOPHYCIS SP.	667	34 3.7 2.2- 5.4 NL		310	26 5.1 1.9- 8.1 NL		313.4
		MERLUCCIIUS BILINEARIS	46	45 4.2 3.0- 6.7 NL	5	42	42 5.6 3.4- 8.3 NL	7	27.8
		PEPRILUS TRIACANTHUS	4	4 4.9 3.4- 6.4 SL		1	1 61.8 SL		1.5
		PRICNOTUS CARLINIUS	408	32 2.8 1.5- 3.5 SL		1	1 3.3 SL		136.0
		CITHARICHTHYS ARCTIFRONS	91	25 5.6 3.1-11.3 SL		354	25 6.7 4.2- 9.6 SL		145.3
		PARALICHTHYS DENTATUS			0	2	2 6.0 5.7- 6.3 SL	0	0.7
		HIPPOGLOSSINA OBLONGUS	16	16 5.3 3.8- 6.5 SL		14	14 6.8 4.6- 8.3 SL		9.5
		SCOPHTHALMUS AQUOSUS	2	2 5.3 5.2- 5.3 SL		1	1 5.5 SL		0.9
		ADDITIONAL LARVAE CAUGHT		OPHIOIDAE UNIDENTIFIED			LOPHIIFORMES OPHIOIDAE LABRIDAE CR SCARIDAE UNIDENTIFIED		
0 8	12 10		SAMPLING DEPTH 0-15M			SAMPLING DEPTH 1E-33M			
		LOPHIUS AMERICANUS	1	1 5.1 TL		1	1 4.9 TL		0.6
		ENCHELIOPLIS CIMBRICUS			0	3	3 4.0 3.5- 4.4 SL	0	1.0
		UFOPHYCIS SP.	460	30 4.0 1.9- 7.6 NL		222	30 4.1 2.1- 6.2 NL		212.0
		MERLUCCIIUS BILINEARIS	2	2 4.3 2.9- 5.7 NL	36	39	35 4.5 2.8- 6.7 NL	9	13.6
		PEPRILUS TRIACANTHUS	1	1 6.7 SL		1	1 7.7 SL		0.6
		PRICNOTUS CARLINIUS	1	1 4.0 SL		2	2 2.7 2.3- 3.1 SL		1.0
		CITHARICHTHYS ARCTIFRONS	9	9 5.2 2.7- 6.5 SL		253	25 6.3 4.6-11.8 SL		17.0
		HIPPOGLOSSINA OBLONGUS	3	3 3.8 3.5- 4.2 SL		4	4 5.8 4.2- 7.7 SL		2.2
		ADDITIONAL LARVAE CAUGHT		OPHIOIDAE UNIDENTIFIED					
F 1	05 10		SAMPLING DEPTH 0-6M						
		BREVOORTIA TYRANNUS	10	9 7.2 5.6- 8.7 TL					1.2
		ENGRAULIS EURYSTOE	1	1 16.5 TL					0.1
		UFOPHYCIS SP.	1	1 1.1 NL					0.1
		PRICNOTUS CARLINIUS	89	21 2.7 2.0- 3.7 SL					10.8
		CITHARICHTHYS ARCTIFRONS	1	1 3.7 SL					0.1
		PARALICHTHYS DENTATUS	1	1 4.1 SL	0				0.1
		SCOPHTHALMUS AQUOSUS	5	5 2.6 2.2- 2.9 SL					0.6
		ADDITIONAL LARVAE CAUGHT		OPHIOIDAE					
F 2	05 10		SAMPLING DEPTH 0-6M						
		ENGRAULIS EURYSTOE	2	2 4.7 3.1- 6.3 TL					0.2
		UFOPHYCIS SP.	10	7 2.0 1.5- 2.4 NL					1.2
		PRICNOTUS CARLINIUS	134	29 3.6 2.2- 5.5 SL					16.2
		ETROPUS MICROSTOMUS	17	16 2.9 2.3- 4.1 SL					2.1
		PARALICHTHYS DENTATUS	10	9 3.7 2.9- 4.8 SL	0				1.2
		SCOPHTHALMUS AQUOSUS	16	16 2.7 2.3- 3.0 SL					1.9
		ADDITIONAL LARVAE CAUGHT		OPHIOIDAE UNIDENTIFIED					
F 3	05 10		SAMPLING DEPTH 0-6M						
		BREVOORTIA TYRANNUS	6	6 5.9 4.0-10.3 TL					0.7
		UFOPHYCIS SP.	29	23 2.9 1.8- 4.2 NL					3.5
		CENTROPOMUS STRIATA	1	1 5.0 SL					0.1
		PRICNOTUS CARLINIUS	83	17 2.7 1.5- 3.5 SL					10.1
		ETROPUS MICROSTOMUS	23	23 3.0 2.3- 3.9 SL					2.8
		PARALICHTHYS DENTATUS	28	27 3.5 3.0- 4.6 SL	45				3.4
		HIPPOGLOSSINA OBLONGUS	6	5 3.0 2.8- 3.2 SL					0.7
		SCOPHTHALMUS AQUOSUS	7	7 2.8 2.4- 3.1 SL					0.8
		ADDITIONAL LARVAE CAUGHT		OPHIOIDAE UNIDENTIFIED					

TABLE 3. (continued)

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CRUISE DATE STA. NM	SPECIES ANALYZED	***** LARVAE *****				NO. EGGS	***** LARVAE *****				NO. EGGS	NO. PER 10M LARVAE	2 10M EGGS
		NUMBER	LENGTHS (MM)	MEAN	RANGE		NUMBER	LENGTHS (MM)	MEAN	RANGE			
E 4	11 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 0-15M						
	BREVORTIA TYRANNUS	3	2	11.5	10.0-13.0	TL						0.9	
	UROPHYCIS SP.	13	5	5.6	1.9-12.5	NL						3.9	
	MERLUCCIVUS BILINEARIS	1	1	2.8		NL	33					0.3	10.0
	PRIONOTUS CARLINUS	60	18	3.3	1.6-4.6	SL						18.2	
	ETROPUS MICROSTOMUS	1	1	3.9		SL						0.3	
	PARALICHTHYS DENTATUS	4	4	4.4	3.9-5.1	SL	119					1.2	36.1
	HIPPOGLOSSINA OBLINUS	3	2	3.1	3.0-3.1	SL						0.9	
	SCOPHTHALMUS AQUOSUS	26	8	4.4	2.8-6.3	SL						7.9	
	ADDITIONAL LARVAE CAUGHT	SYNGNATHIDAE UNIDENTIFIED											
E 5	11 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 16-24M						
	BREVORTIA TYRANNUS	476	111	7.2	3.7-12.5	TL						237.1	
	ENGRAULIS EURYSTOLE	1	1	13.1		TL						0.3	
	ENCHELYOPUS CIMBRIUS	1	1	4.3		SL						0.3	0.0
	UROPHYCIS SP.	437	22	3.6	1.6-8.3	NL	0	287	33	4.1	1.7-6.1	NL	100.6
	MERLUCCIVUS BILINEARIS	21	21	6.4	2.9-20.2	NL	1	15	15	5.1	2.7-7.6	NL	8.9
	CENTROPOMUS STRIATUS	1	1	6.1		SL						0.3	
	PEPRILUS TRIACANTHUS	7	7	3.8	2.5-5.5	SL		8	8	6.0	4.6-7.6	SL	3.5
	PRIONOTUS CARLINUS	433	38	3.5	2.1-4.7	SL		80	22	3.5	2.0-5.0	SL	145.9
	PRIONOTUS EVOLANS	1	1	6.4		SL						0.3	
	CITHARICHTHYS ARCTIFRONS	28	24	4.4	2.9-13.3	SL		19	19	5.2	3.3-10.7	SL	11.7
	ETROPUS MICROSTOMUS							3	3	3.7	3.4-4.4	SL	0.5
	PARALICHTHYS DENTATUS	41	40	5.0	2.8-6.4	SL	15	35	38	4.0	3.0-6.0	SL	18.9
	HIPPOGLOSSINA OBLINUS	55	52	4.0	2.6-5.4	SL		11	11	3.8	2.8-5.2	SL	18.7
	SCOPHTHALMUS AQUOSUS	140	50	3.7	2.4-4.5	SL		218	50	3.7	2.8-6.2	SL	78.2
	ADDITIONAL LARVAE CAUGHT	SERRANIDAE UNIDENTIFIED						OPHIIDAE UNIDENTIFIED					
F 6	12 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
	BREVORTIA TYRANNUS	66	36	10.4	7.7-13.0	TL		5	5	5.6	4.9-12.2	TL	22.8
	ENGRAULIS EURYSTOLE							1	1	16.6		TL	0.3
	ENCHELYOPUS CIMBRIUS	1	1	4.1		SL	0					0.3	0.0
	UROPHYCIS SP.	161	29	4.5	2.9-12.4	NL		69	20	4.9	2.6-6.7	NL	71.3
	MERLUCCIVUS BILINEARIS	35	34	6.6	3.1-25.0	NL	3	18	18	8.5	4.5-23.4	NL	16.5
	PEPRILUS TRIACANTHUS	1	1	4.1		SL						0.3	
	PRIONOTUS CARLINUS	62	22	3.9	3.0-5.0	SL		1	1	4.1		SL	20.7
	CITHARICHTHYS ARCTIFRONS	30	27	6.7	2.7-13.9	SL		44	25	6.0	3.6-9.3	SL	23.7
	PARALICHTHYS DENTATUS	13	13	5.7	4.9-6.6	SL	0	8	8	6.4	5.4-7.5	SL	6.6
	HIPPOGLOSSINA OBLINUS	9	5	4.2	2.5-5.6	SL		2	1	6.4		SL	3.4
	SCOPHTHALMUS AQUOSUS	40	16	4.1	2.4-5.8	SL		10	7	4.4	3.7-5.8	SL	15.3
	ADDITIONAL LARVAE CAUGHT	OPHIIDAE UNIDENTIFIED						OPHIIDAE UNIDENTIFIED					
E 7	12 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 16-33M						
	BREVORTIA TYRANNUS							4	4	10.3	10.0-10.5	TL	1.3
	ENCHELYOPUS CIMBRIUS						0	1	1	2.5		SL	0.3
	UROPHYCIS SP.	43	16	3.8	1.8-6.0	NL		297	36	4.6	2.1-8.0	NL	111.9
	MERLUCCIVUS BILINEARIS	7	7	8.0	4.7-14.1	NL	1	52	52	10.0	2.8-31.4	NL	19.4
	CITHARICHTHYS ARCTIFRONS	13	12	6.8	4.7-8.7	SL		473	25	6.4	4.7-8.1	SL	141.6
	ETROPUS MICROSTOMUS							1	1	7.1		SL	0.3
	PARALICHTHYS DENTATUS						0	1	1	6.0		SL	0.3
	HIPPOGLOSSINA OBLINUS	1	1	6.3		SL		8	7	6.3	4.7-8.1	SL	3.0
	ADDITIONAL LARVAE CAUGHT	OPHIIDAE UNIDENTIFIED						OPHIIDAE UNIDENTIFIED					
E 8	12 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
	UROPHYCIS SP.	149	29	4.0	2.1-8.7	NL		21	9	3.2	1.7-6.5	NL	51.7
	MERLUCCIVUS BILINEARIS	5	4	3.5	2.8-4.4	NL	0	2	2	3.0	2.8-3.2	NL	2.2
	CITHARICHTHYS ARCTIFRONS	25	25	4.1	3.0-5.2	SL		8	6	5.3	3.7-7.7	SL	10.2
	HIPPOGLOSSINA OBLINUS	1	1	6.7		SL		3	2	4.4	3.6-5.2	SL	1.3
	ADDITIONAL LARVAE CAUGHT	OPHIIDAE UNIDENTIFIED						OPHIIDAE UNIDENTIFIED					
F 1	05 10	SAMPLING DEPTH 0-6M											
	ANCHOA MITCHELLI	7	7	16.5	11.3-15.5	TL						0.8	
	UROPHYCIS SP.	2	2	2.6	1.7-3.5	NL						0.2	
	ADDITIONAL LARVAE CAUGHT	SYNGNATHIDAE COBIIDAE UNIDENTIFIED											
F 2	05 10	SAMPLING DEPTH 0-6M											
	ANCHOA MITCHELLI	1	1	11.2		TL						0.1	
	ADDITIONAL LARVAE CAUGHT	OPHIIDAE UNIDENTIFIED											

TABLE 3. (continued)

[illegible]

CRUISE DATE		***** LARVAE *****					***** LARVAE *****					Z	
06612	1966	NUMBER	LENGTHS (MM)	NO.	NUMBER	LENGTHS (MM)	NO.	PER 10M	PER 10M	PER 10M	PER 10M	PER 10M	
STA.	04	TOTAL MEAS.	MEAN	RANGE	MEAS.	TOTAL MEAS.	MEAN	RANGE	MEAS.	NO. EGGS	NO. EGGS	NO. EGGS	
G 3	C3 10	SAMPLING DEPTH	0-15M										
BREVORTIA TYRANNUS		1	1	11.6	TL							0.3	
HECERYCIS SP.		8	6	2.4	1.7- 3.0 NL							2.4	
PICNOTUS CARLINUS		28	27	3.4	2.3- 5.9 SL							8.5	
ETROPUS MICROSTOMUS		1	1	6.3	SL							0.3	
PARALICHTHYS CENTATUS												0.0	
HIPPUGLOSSINA OBLONGUS		2	1	3.0	SL							0.6	
ADDITIONAL LARVAE CAUGHT OPHIDIIDAE													
.....													
G 4	C4 10	SAMPLING DEPTH	0-15M										
BREVORTIA TYRANNUS		2553	116	6.4	2.7-10.5 TL							773.6	
ENGRAULIS EURYSTOLE		10	10	17.9	11.4-23.1 TL							3.0	
LEPHIUS AMERICANUS		1	1	14.0	TL							0.3	
UROPHYCIS SP.		804	28	2.7	1.7- 5.4 NL							243.6	
MERLUCCIIUS BILINEARIS		1	1	5.4	NL							0.3	
CENTROPAGES STRIATA		1	1	6.3	SL							0.3	
PEPRILUS TRIACANTHUS		1	1	6.2	SL							0.3	
PICNOTUS CARLINUS		2425	25	3.2	1.9- 5.2 SL							734.8	
CITHARICHTHYS ARCTIFRONS		62	25	6.4	2.7-11.7 SL							18.8	
ETROPUS MICROSTOMUS		20	20	5.5	2.7-11.4 SL							6.1	
PARALICHTHYS CENTATUS		22	21	4.1	3.2- 5.2 SL							6.7	
HIPPUGLOSSINA OBLONGUS		64	60	4.0	2.9- 7.2 SL							19.4	
SCOPHTHALMUS AQUOSUS		28	28	3.6	3.1- 4.1 SL							8.5	
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED													
.....													
G 5	C4 10	SAMPLING DEPTH	0-15M			SAMPLING DEPTH	18-33M						
BREVORTIA TYRANNUS		79	37	7.1	2.7-10.3 TL		2	2	7.3	7.2- 7.4 TL		26.3	
ENGRAULIS EURYSTOLE		2	2	13.0	13.0-13.1 TL							0.7	
LEPHIUS AMERICANUS		1	1	4.9	TL							0.3	
HECERYCIS SP.												0.3	
UROPHYCIS SP.		209	26	3.4	2.3- 5.5 NL		23	18	3.1	1.7- 4.4 NL		70.4	
MERLUCCIIUS BILINEARIS							1	1	4.2	SL		0.3	
CENTROPAGES STRIATA							2	2	4.6	3.5- 5.8 NL		0.7	
PEPRILUS TRIACANTHUS												0.3	
PICNOTUS CARLINUS		809	25	3.6	2.3- 5.5 SL							269.6	
CITHARICHTHYS ARCTIFRONS		52	52	4.9	2.9-10.7 SL		31	31	3.2	2.4- 5.7 SL		1.3	
ETROPUS MICROSTOMUS		18	18	7.0	3.9-11.6 SL		24	24	8.5	4.4-14.2 SL		23.6	
PARALICHTHYS CENTATUS		3	3	4.9	3.8- 6.3 SL							7.4	
HIPPUGLOSSINA OBLONGUS		22	19	4.1	3.1- 5.7 SL		6	6	8.8	6.1-11.7 SL		1.6	
SCOPHTHALMUS AQUOSUS		3	3	4.1	3.7- 4.6 SL		2	2	5.6	3.8- 7.4 SL		7.3	
ADDITIONAL LARVAE CAUGHT SERRANIDAE													
UNIDENTIFIED													
.....													
G 6	C4 10	SAMPLING DEPTH	0-15M			SAMPLING DEPTH	18-33M						
BREVORTIA TYRANNUS		29	24	7.0	3.9- 5.7 TL		6	5	7.4	6.3-10.3 TL		10.7	
ENGRAULIS EURYSTOLE							2	2	15.9	15.8-16.0 TL		0.7	
CERATOSCOPUS MAHERENSIS		2	2	8.0	7.5- 8.6 SL		2	2	10.0	9.5-10.5 SL		1.3	
LEPHIUS AMERICANUS							1	1	10.6	TL		0.3	
UROPHYCIS SP.		625	27	3.5	2.2- 8.5 NL		97	13	6.1	2.9- 8.0 NL		219.8	
MERLUCCIIUS BILINEARIS							1	1	7.4	NL		0.3	
PEPRILUS TRIACANTHUS							1	1	31.0	SL		0.3	
PICNOTUS CARLINUS		351	28	3.3	2.5- 4.0 SL		50	24	3.1	2.2- 3.8 SL		122.0	
CITHARICHTHYS ARCTIFRONS		25	25	6.7	5.1- 9.6 SL		129	25	1.4	5.3- 5.6 SL		50.5	
HIPPUGLOSSINA OBLONGUS		13	13	4.1	2.9- 5.2 SL		10	10	6.0	3.7- 8.0 SL		7.2	
SCOPHTHALMUS AQUOSUS		1	1	3.8	SL							0.3	
ADDITIONAL LARVAE CAUGHT CYCLOTHOPE SP.													
UNIDENTIFIED													
.....													
H 1	C3 10	SAMPLING DEPTH	0- 6M										
PICNOTUS CARLINUS		2	2	5.0	4.5- 5.5 SL							0.2	
ADDITIONAL LARVAE CAUGHT OPHIDIIDAE													
UNIDENTIFIED													
.....													
H 2	C3 10	SAMPLING DEPTH	0- 6M										
ENGRAULIS EURYSTOLE		1	1	12.8	TL							0.1	
PICNOTUS CARLINUS		13	13	3.8	2.1- 5.6 SL							1.6	
ETROPUS MICROSTOMUS		2	2	5.2	4.0- 6.3 SL							0.2	
.....													
H 3	C3 10	SAMPLING DEPTH	0-15M										
PICNOTUS CARLINUS		7	7	3.6	1.9- 4.8 SL							2.1	
ETROPUS MICROSTOMUS		16	16	4.2	2.0- 6.3 SL							4.8	
PARALICHTHYS CENTATUS												0.0	
ADDITIONAL LARVAE CAUGHT OPHIDIIDAE													
UNIDENTIFIED													
.....													

TABLE 3. (continued)

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***** LARVAE *****		***** LARVAE *****							
CRUISE DATE	NO.	LENGTHS (MM)	NO.	NO.	LENGTHS (MM)	NO.	NO.	PER 10M	
STA. D.M.	SPECIES ANALYZED	TOTAL MEAS.	MEAN RANGE MEAS.	EGGS	TOTAL MEAS.	MEAN RANGE MEAS.	EGGS	LA FVAE	EGGS
F 4 C3 10		SAMPLING DEPTH 0-15M							
BREVOORTIA TYRANNUS	10	10	10.3	8.0-11.3 TL				3.0	
UROPHYCIS SP.	14	5	3.2	2.7-3.7 NL				4.2	
PRIONOTUS CARLINUS	38	15	4.2	2.8-5.2 SL				11.5	
ETREPOS MICROSTOMUS	13	13	5.0	3.7-8.0 SL				3.9	
PARALICHTHYS DENTATUS					45			0.0	13.6
ADDITIONAL LARVAE CAUGHT		OPHIIDIACE							
		SERRANIDAE							
		UNIDENTIFIED							
F 5 C3 10		SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-33M				
BREVOORTIA TYRANNUS	1	1	7.8	TL	5	5	7.4	6.9-8.0 TL	2.0
UROPHYCIS SP.	46	31	3.8	2.5-7.9 NL	18	16	2.1	2.0-4.5 NL	19.8
PERILUS TRIACANTHUS					1	1	7.0	SL	0.3
PRIONOTUS CARLINUS	15	15	3.9	2.5-5.4 SL	8	8	3.8	2.7-5.4 SL	7.2
CITHARICHTHYS ARCTIFRONS	2	2	6.0	4.3-7.6 SL	2	2	3.5	3.2-3.7 SL	1.3
ETREPOS MICROSTOMUS	8	8	7.2	3.4-10.3 SL	2	2	5.5	4.7-7.0 SL	3.1
PARALICHTHYS DENTATUS									0.0
HIPPOGLOSSINA OBLONGUS	1	1	7.2	SL	1	1	4.2	SL	0.6
ADDITIONAL LARVAE CAUGHT		OPHIIDIACE			OPHIIDIACE				
H 6 C3 10		SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-33M				
ENGRaulis EURYSTOE					4	4	18.7	15.6-21.0 TL	1.3
CERATOSCOPELUS MADERENSIS	2	2	8.6	7.9-9.3 SL	8	8	9.6	7.2-11.9 SL	3.3
UROPHYCIS SP.	232	34	4.9	2.4-8.3 NL	75	15	7.7	2.2-10.3 NL	54.6
MELUCCIOS BILINEARIS					1	1	15.0	NL	0.3
PRIONOTUS CARLINUS	3	3	2.9	2.8-3.0 SL					1.0
CITHARICHTHYS ARCTIFRONS	79	25	6.2	3.2-10.7 SL	121	25	8.7	6.0-12.7 SL	64.0
ETREPOS MICROSTOMUS	1	1	5.9	SL					0.3
HIPPOGLOSSINA OBLONGUS	8	8	4.6	3.6-5.9 SL	6	5	6.1	5.5-6.3 SL	4.4
ADDITIONAL LARVAE CAUGHT		LOPHIIFORMES			OPHIIDIACE				
		OPHIIDIACE			Gobiidae				
		UNIDENTIFIED							
H 7 C3 10		SAMPLING DEPTH 0-15M			SAMPLING DEPTH 18-33M				
ENGRaulis EURYSTOE	5	5	17.7	11.2-22.6 TL	1	1	25.5	TL	1.8
CERATOSCOPELUS MADERENSIS	4	4	9.3	7.7-11.6 SL	2	2	12.0	10.5-13.5 SL	1.9
UROPHYCIS SP.	68	20	4.0	1.8-8.6 NL	1	1	9.6	NL	12.7
CITHARICHTHYS ARCTIFRONS	15	14	6.3	3.2-12.5 SL					5.0
HIPPOGLOSSINA OBLONGUS	7	7	3.3	2.7-4.5 SL					2.3
ADDITIONAL LARVAE CAUGHT		LOPHIIFORMES							
		OPHIIDIACE							
		UNIDENTIFIED							
J 1 C1 10		SAMPLING DEPTH 0-6M							
ADDITIONAL LARVAE CAUGHT		Gobiidae							
J 2 C1 10		SAMPLING DEPTH 0-3M							
BREVOORTIA TYRANNUS	2	2	5.9	5.5-6.4 TL					0.1
ANCHOA HEPSETUS	1	1	17.3	TL					0.1
PRIONOTUS CARLINUS	6	6	6.1	5.7-6.6 SL					0.4
ETREPOS MICROSTOMUS	10	10	4.6	3.3-6.7 SL					0.6
SYMPHURUS SP.	6	6	6.1	3.7-8.1 SL					0.4
ADDITIONAL LARVAE CAUGHT		OPHIIDIACE							
		SYNGNATHICAE							
		BLENNIIAE							
		TRIGLICAE							
		UNIDENTIFIED							
J 3 C1 10		SAMPLING DEPTH 0-6M							
BREVOORTIA TYRANNUS	2	2	3.9	3.5-4.4 TL					0.2
UROPHYCIS SP.	2	2	8.1	7.5-8.8 NL					0.2
PRIONOTUS CARLINUS	1	1	4.9	SL					0.1
ETREPOS MICROSTOMUS	12	12	5.0	2.7-8.5 SL					1.5
ADDITIONAL LARVAE CAUGHT		OPHIIDIACE							
		TRIGLICAE							
J 4 C2 10		SAMPLING DEPTH 0-6M							
UROPHYCIS SP.	6	4	5.2	2.7-6.5 NL					0.7
PRIONOTUS CARLINUS	4	4	4.0	3.5-4.5 SL					0.5
CITHARICHTHYS ARCTIFRONS	1	1	7.0	SL					0.1
ETREPOS MICROSTOMUS	15	15	7.7	4.6-11.1 SL					1.8
HIPPOGLOSSINA OBLONGUS	1	1	5.3	SL					0.1
ADDITIONAL LARVAE CAUGHT		OPHIIDIACE							

TABLE 3. (continued)

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CRUISE DATE		***** LARVAE *****					***** LARVAE *****						
6612 1966		NUMBER		LENGTHS (MM)		NO.	NUMBER		LENGTHS (MM)		NO.	NO. PER 10M	
STA. 0 M SPECIES ANALYZED		TOTAL MEAS.		MEAN RANGE		EGGS	TOTAL MEAS.		MEAN RANGE		EGGS	LARVAE	
J 5 C2 10		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 0-15M						
UROPHYCIS SP.		36	26	5.9	4.0- 8.4 NL							10.9	
PEPRILUS TRIACANTHUS		2	2	3.6	3.1- 4.1 SL							0.6	
PRICNOTUS CARLINUS		2	2	5.0	4.0- 6.1 SL							0.6	
CITHARICHTHYS ARCTIFRONS		21	21	5.6	2.7-10.8 SL							6.4	
ETROPUS MICROSTOMUS		15	15	8.3	3.9-11.9 SL							4.5	
HIPPOGLOSSINA OBLIQUUS		4	4	5.0	3.2- 6.4 SL							1.2	
ADDITIONAL LARVAE CAUGHT		OPHIIDIIDAE											
		UNIDENTIFIED											
.....													
J 6 C2 10		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M						
UROPHYCIS SP.		114	16	6.0	4.5- 8.1 NL		38	30	5.4	2.5- 8.9 NL		41.1	
CENTROPRISTIS STRIATA							1	1	4.1	SL		0.2	
PEPRILUS TRIACANTHUS							1	1	4.2	SL		0.2	
PRICNOTUS CARLINUS		2	2	3.4	3.2- 3.7 SL							0.6	
CITHARICHTHYS ARCTIFRONS		55	25	6.1	3.7-10.7 SL		46	25	6.6	3.3-12.6 SL		24.3	
ETROPUS MICROSTOMUS		20	20	7.4	4.3- 9.3 SL		11	11	7.3	4.7-10.3 SL		7.9	
HIPPOGLOSSINA OBLIQUUS		7	7	4.6	3.7- 6.3 SL		7	7	6.3	4.7- 7.9 SL		3.3	
ADDITIONAL LARVAE CAUGHT		OPHIIDIIDAE					OPHIIDIIDAE						
.....													
J 7 C2 10		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
CERATOPOGONELUS MANEFAENSIS		2	2	9.8	7.7-12.0 SL		3	3	11.1	11.0-11.1 SL		1.6	
UROPHYCIS SP.		8	3	6.8	5.6- 7.7 NL		5	4	11.2	6.0-14.0 NL		4.1	
MERLUCCIIUS BILINEARIS						0	1	1	22.5	NL	0	0.3	
CITHARICHTHYS ARCTIFRONS		3	3	5.2	4.2- 6.2 SL		10	10	7.8	5.2-13.6 SL		4.2	
ADDITIONAL LARVAE CAUGHT		LOPHIIFORMES					LOPHIIFORMES				0.0		
		GOBIIDAE											
.....													
K 1 C1 1C		SAMPLING DEPTH 0-15M											
ANCHOA HEPSETUS		1	1	7.8	TL							0.3	
CENTROPRISTIS STRIATA		1	1	4.3	SL							0.3	
PEPRILUS TRIACANTHUS		1	1	4.2	SL							0.3	
SYMPHURUS SP.		3	2	8.2	7.9- 8.4 SL							0.9	
ADDITIONAL LARVAE CAUGHT		OPHIIDIIDAE											
		TRIGLICAE											
.....													
K 2 C1 1C		SAMPLING DEPTH 0-15M											
PSEUDOTIA TYRANNUS		2	2	3.6	3.5- 3.7 TL							0.6	
ANCHOA HEPSETUS		1	1	16.5	TL							0.3	
SYMPHURUS SP.		2	2	7.4	7.2- 7.5 SL							0.6	
ADDITIONAL LARVAE CAUGHT		OPHIIDIIDAE											
		TRIGLICAE											
.....													
K 3 C1 1C		SAMPLING DEPTH 0-15M											
PSEUDOTIA TYRANNUS		11	10	6.4	4.5- 7.7 TL							3.3	
UROPHYCIS SP.		1	1	8.2	NL							0.3	
MICROPOGON UNDULATUS		1	1	4.6	SL							0.3	
PRICNOTUS CARLINUS		1	1	4.4	SL							0.3	
ETROPUS MICROSTOMUS		26	25	5.1	3.6- 8.4 SL							7.9	
SYMPHURUS SP.		1	1	6.7	SL							0.3	
ADDITIONAL LARVAE CAUGHT		OPHIIDIIDAE											
.....													
K 4 C1 1C		SAMPLING DEPTH 0-15M											
UROPHYCIS SP.		6	5	3.9	2.9- 6.0 NL							1.8	
PRICNOTUS CARLINUS		3	3	3.6	3.3- 4.0 SL							0.9	
CITHARICHTHYS ARCTIFRONS		6	6	4.8	4.0- 6.0 SL							1.8	
ETROPUS MICROSTOMUS		4	2	5.0	4.6- 5.3 SL							1.2	
ADDITIONAL LARVAE CAUGHT		URANOSCOPICAE											
.....													
K 5 C1 1C		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M						
ANCHOA HEPSETUS		13	13	8.1	5.1-14.4 TL		2	2	16.0	15.1-17.0 TL		4.3	
ENGRAULIS EURYSTOIE							8	8	13.5	7.2-19.4 TL		1.3	
UROPHYCIS SP.		9	6	4.1	2.7- 5.6 NL		31	11	7.9	3.9- 9.8 NL		7.8	
CENTROPRISTIS STRIATA							1	1	7.3	SL		0.2	
LARIUS FASCIATUS		1	1	5.5	SL		1	1	4.3	SL		0.5	
MICROPOGON UNDULATUS		2	2	4.4	4.1- 4.8 SL							0.6	
PEPRILUS TRIACANTHUS							1	1	7.6	SL		0.2	
PRICNOTUS CARLINUS							2	2	3.0	2.7- 3.3 SL		0.3	
BOTHUS OCELLATUS		1					1	1	8.4	SL		0.5	
CITHARICHTHYS ARCTIFRONS		17	13	4.6	3.0- 6.7 SL		8	6	6.3	4.2-10.3 SL		6.5	
ETROPUS MICROSTOMUS		20	20	5.5	4.6- 7.1 SL		8	8	6.7	5.3- 8.1 SL		7.4	
SYACIUM PAPILLOSUM		1	1	8.2	SL							0.3	
GLYPTOCEPHALUS CYNOGLOSSUS							1	1	22.7	SL		0.2	
ADDITIONAL LARVAE CAUGHT		SYNOBRANCHIIDAE					OPHIIDIIDAE						
		LOPHIIFORMES					GOBIIDAE						
		OPHIIDIIDAE											
		URANOSCOPICAE											
		TRIGLICAE											

TABLE 3. (continued)

CRUISE DATE	***** LARVAE *****	***** LARVAE *****	2
06612 1966	NUMBER	LENGTHS (MM)	NO. EGGS
STA. D M SPECIFS ANALYZED	TOTAL MEAS.	MEAN RANGE MEAS.	NO. PER 10M EGGS
K 6 20 09	SAMPLING DEPTH 0-15M		
ANCHOA HEPSETUS	24 23 10.6	5.5-15.8 TL	9.9
ENGRAULIS EUPYSTOLE	7 7 13.2	6.9-16.9 TL	4.1
CERATOSCOPELUS WAKMINGI			0.3
DIAPHUS SP.	23 14 3.5	2.1- 4.1 NL	46.2
UROPHYCIS SP.	1 1 6.0		0.3
SCOMBEROMORUS CAVALLA	2 2 6.2	6.0- 6.5 SL	0.7
BETHEUS OCELLATUS	14 13 5.2	4.0- 6.8 SL	8.5
CITHARICHTHYS ARCTIFRONS	24 24 6.0	3.7- 7.3 SL	9.2
ETROPLUS MICROSTOMUS	6 6 5.8	4.2- 8.6 SL	2.5
SYACIUM PAPILLOSUM			0.7
GLYPTOCEPHALUS CYNOGLOSSUS	3 3 7.3	5.3-11.1 SL	1.6
SYMPHURUS SP.			
ADDITIONAL LARVAE CAUGHT	CYCLOTHONE SP.	CYCLOTHONE SP.	
	SYNOODONTIDAE	LOPHIIFORMES	
	BREGMACEROTIDAE	OPHIOTIDAE	
	OPHIOTIDAE	SERRANIDAE	
	SERRANIDAE	GOBIIDAE	
	GOBIIDAE	TRIGLIDAE	
	TRIGLIDAE		
	UNIDENTIFIED		
.....			
K 7 30 09	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 18-33M	
ANCHOA HEPSETUS	4 4 17.2	16.5-18.2 TL	1.5
ENGRAULIS EUPYSTOLE	6 6 20.3	19.3-21.5 TL	2.0
DIAPHUS SP.			0.3
UROPHYCIS SP.			1.7
MERLUCCIIUS BILINEARIS	1 1 11.0		0.3
MICROPOGON UNULATUS	1 1 4.2		0.3
BETHEUS OCELLATUS	4 4 4.5	3.8- 5.4 SL	1.3
CITHARICHTHYS ARCTIFRONS			0.3
SYACIUM PAPILLOSUM	4 3 4.4	4.1- 4.8 SL	1.3
ADDITIONAL LARVAE CAUGHT	CYCLOTHONE SP.	SYNOODONTIDAE	
	SYNOODONTIDAE	CARAPIDAE	
	CARAPIDAE	GOBIIDAE	
	GOBIIDAE	TETRAODONTIDAE	
	UNIDENTIFIED	UNIDENTIFIED	
.....			
I 1 20 05	SAMPLING DEPTH C- 6M		
MICROPOGON UNULATUS	4 4 4.6	3.4- 6.1 SL	0.5
SYMPHURUS SP.	1 1 6.8		0.1
ADDITIONAL LARVAE CAUGHT	OPHIOTIDAE		
	UNIDENTIFIED		
.....			
I 2 30 09	SAMPLING DEPTH C- 6M		
ANCHOA HEPSETUS	7 7 6.9	3.0-12.2 TL	0.8
LARIMUS FASCIATUS	3 3 2.7	2.0- 3.2 SL	0.4
MICROPOGON UNULATUS	28 28 3.5	2.6- 4.4 SL	3.4
ETROPLUS MICROSTOMUS	1 1 2.9		0.1
SYACIUM PAPILLOSUM	1		0.1
SYMPHURUS SP.	2 2 4.7	3.9- 5.4 SL	0.2
ADDITIONAL LARVAE CAUGHT	UNIDENTIFIED		
.....			
I 3 30 09	SAMPLING DEPTH C-15M	SAMPLING DEPTH 18-24M	
OPHICHTHYS GOMESI		2 2 56.2	44.9-67.5 TL
ANCHOA HEPSETUS	140 53 7.8	3.1-17.2 TL	67.2
CERATOSCOPELUS WAKMINGI		2 2 6.0	5.0- 7.1 SL
DIAPHUS SP.	1 1 12.9		0.3
NETOLYCHNUS VALDIVAE		2 2 5.5	5.6- 6.2 SL
UROPHYCIS SP.	1 1 4.2		0.3
HEMANTHIA VI VANUS	1 1 4.7		0.6
LARIMUS FASCIATUS	1 1 3.2		0.3
MICROPOGON UNULATUS	22 22 3.3	2.8- 5.0 SL	0.5
SCOMBEROMORUS CAVALLA		78 77 3.3	2.7- 5.0 SL
PRIENOTUS CAROLINUS		1 1 11.1	
BETHEUS OCELLATUS	1 1 4.7		0.2
ETROPLUS MICROSTOMUS	40 37 3.8	3.1- 4.8 SL	1.0
SYACIUM PAPILLOSUM	2 2 7.8	6.0- 9.6 SL	53.1
SYMPHURUS SP.	3 3 6.8	4.1-12.1 SL	2.2
ADDITIONAL LARVAE CAUGHT	SYNOODONTIDAE	SYNOODONTIDAE	3.0
	OPHIOTIDAE	LOPHIIFORMES	
	SERRANIDAE	BREGMACEROTIDAE	
	PRIACANTHIDAE	OPHIOTIDAE	
	BLENNIIDAE	SERRANIDAE	
	CALLIONYMIDAE	SCIAENIDAE	
	GOBIIDAE	URANOSCOPIDAE	
	TRIGLIDAE	BLENNIIDAE	
		CALLIONYMIDAE	
		GOBIIDAE	
		SCORPAENIDAE	
		TRIGLIDAE	
		BALISTIDAE	
		UNIDENTIFIED	

TABLE 3. (continued)

CRUISE DATE		***** LARVAE *****				***** LARVAE *****				2	
06617 1966		NUMBER				NUMBER				NO. PER 10M	
STA.	D M	SPECIES ANALYZED				SPECIES ANALYZED				LARVAE	
L 4	30 09	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 1E-33M				EGGS	
		ANCHOA HEPSETUS	7	6	8.4	6.4-12.0	TL				2.3
		ENGRAULIS EURYSTOMUS	6	6	7.9	6.8- 9.1	TL				4.5
		CERATOSCOPELUS WAMMINGI						8	8	7.9	4.7-12.6
		DIAPHUS SP.	1	1	11.2		SL	1	1	5.0	SL
		URCINUS SP.						1	1	5.0	SL
		HEMANTHUS VIANUS	1	1	6.6		SL	2	2	3.4	3.2- 3.6
		MICROPOGON UNULATUS									SL
		ALXIS SP.	1	1	7.7		SL	1	1	3.4	
		RETHUS DECELLATUS	14	14	7.0	4.2- 9.8	SL				SL
		SCOPHTHALMUS AQUOSUS	1	1	3.3		SL	1	1	7.7	
		SYACIUM PAPILLOSUM	6	6	5.5	4.8- 7.2	SL				SL
		SYMPHURUS SP.	3	3	12.4	6.6-16.8	SL	2	2	5.7	4.8- 6.6
		ADDITIONAL LARVAE CAUGHT	OPHICHTHICAE					OPHICHTHICAE			
			SYNOODONTICAE					SYNOODONTICAE			
			LOPHIIFORMES					LOPHIIFORMES			
			OPHIIDICAE					OPHIIDICAE			
			SERRANICAE					SERRANICAE			
			CARANGICAE					LABRIDAE OR SCARIDAE			
			MUGILIDAE					GOBIIDAE			
			GOBIIDAE					UNIDENTIFIED			
			TRIGLICAE								
			UNIDENTIFIED								
.....											
I 5	30 09	SAMPLING DEPTH 0-15M				SAMPLING DEPTH 18-33M					
		ANCHOA HEPSETUS	3	3	13.0	11.3-16.2	TL				1.0
		CERATOSCOPELUS MAHERENSIS	1	1	8.9		SL				0.3
		DIAPHUS SP.	1	1	5.0		SL	1	1	6.2	SL
		HEMANTHUS VIANUS						1	1	5.6	SL
		RETHUS DECELLATUS	7	7	4.6	3.9- 5.8	SL	16	16	4.9	3.5- 8.3
		SYACIUM PAPILLOSUM	14	14	4.9	3.5- 8.5	SL	12	12	5.2	3.2- 7.3
		SYMPHURUS SP.	1	1	5.7		SL	1	1	13.2	SL
		ADDITIONAL LARVAE CAUGHT	CYCLOTHONE SP.					CYCLOTHONE SP.			
			SYNOODONTICAE					SYNOODONTICAE			
			SERRANICAE					PARALEPIDICAE			
			APOGONIIDAE					LOPHIIFORMES			
			CARANGICAE					SERRANICAE			
			LABRIDAE OR SCARIDAE					APOGONIDAE			
			GOBIIDAE					MALACANTHUS SP.			
			SCORPAENIDAE					LABRIDAE OR SCARIDAE			
			TETRAODONTICAE					MUGILIDAE			
			UNIDENTIFIED					GOBIIDAE			
								SCORPAENICAE			
								UNIDENTIFIED			
.....											
M 1	28 09	SAMPLING DEPTH 0-6M									
		ANCHOA HEPSETUS	2	2	8.3	8.2- 8.5	TL				0.2
		ENGRAULIS EURYSTOMUS	4	3	6.1	5.4- 6.5	TL				0.5
		MICROPOGON UNULATUS	10	10	4.3	3.6- 5.1	SL				1.2
		PEPRILUS TRIACANTHUS	1	1	3.3		SL				0.1
		PRIONOTUS CARLINUS	3	3	6.0	5.0- 6.9	SL				0.4
		CYCLOPSETTA FIMBRIATA	2	2	7.2	4.7- 9.6	SL				0.2
		ETREPOS MICROSTOMUS	2	2	3.9	3.6- 4.1	SL				0.2
		SYMPHURUS SP.	3	3	10.5	5.0-13.5	SL				0.4
		ADDITIONAL LARVAE CAUGHT	OPHICHTHICAE								
			CYCLOTHONE SP.								
			SYNOODONTICAE								
			OPHIIDICAE								
			SYNGNATHICAE								
			BLENNIICAE								
			BALISTICAE								
			TETRAODONTICAE								
.....											
M 2	29 09	SAMPLING DEPTH 0-6M									
		ANCHOA HEPSETUS	17	16	7.5	4.7-11.7	TL				2.1
		ENGRAULIS EURYSTOMUS	90	26	6.2	3.9- 9.2	TL				10.9
		BENTHOSEMA SUPRORBITALE	1	1	10.0		SL				0.1
		MICROPOGON UNULATUS	3	3	4.8	3.6- 7.1	SL				0.4
		PEPRILUS TRIACANTHUS	2	2	3.3	3.0- 3.6	SL				0.2
		PRIONOTUS CARLINUS	1	1	4.0		SL				0.1
		RETHUS DECELLATUS	1	1	5.2		SL				0.1
		ETREPOS MICROSTOMUS	6	6	4.6	4.0- 6.9	SL				0.7
		SYACIUM PAPILLOSUM	2	2	5.6	5.4- 5.7	SL				0.2
		SYMPHURUS SP.	4	4	4.7	3.7- 7.2	SL				0.5
		ADDITIONAL LARVAE CAUGHT	OPHICHTHICAE								
			BALISTICAE								
			UNIDENTIFIED								

CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2	
06612 1966		NUMBER		LENGTHS (MM)		NO.	NUMBER		LENGTHS (MM)		NO.	PER 10M	
STA.	D M	TOTAL	MEAS.	MEAN	RANGE	EGGS	TOTAL	MEAS.	MEAN	RANGE	EGGS	L/FVAE	EGGS
M 3	29 09	SAMPLING DEPTH		0-15M									
		2	2	44.1	42.0-45.2	TL							0.6
		266	49	9.2	4.3-17.8	TL							10.6
		64	24	7.7	4.4-14.0	TL							19.4
		1	1	4.7		SL							0.3
		3	3	4.8	4.3-5.3	SL							0.9
		2	2	4.2	3.9-4.6	SL							0.6
		6	6	3.6	2.7-5.4	SL							1.8
		165	162	3.6	2.7-4.6	SL							50.0
		1	1	11.3		SL							0.3
		3	3	11.0	8.9-12.9	SL							0.9
		1	1	3.6		SL							0.3
		5	5	5.1	4.2-6.7	SL							1.5
		2	2	5.7	5.5-5.8	SL							0.6
		50	25	5.8	4.1-8.9	SL							15.2
		33	32	5.3	3.3-11.2	SL							10.0
		12	10	8.5	5.9-12.1	SL							3.6
ADDITIONAL LARVAE CAUGHT		SYNOBONTICAE CPHIDIICAE SERRANICAE CARANGICAE SCIAENICAE SPHYRAENICAE URANOSCOPICAE BLENNIICAE CALLIONYMICAE GOBIIDAE TRIGLIIDAE EALISTICAE UNIDENTIFIED											
.....													
M 4	29 09	SAMPLING DEPTH		0-15M									
		236	40	7.5	4.7-16.0	TL							71.5
		8	8	9.7	3.9-16.5	TL							2.4
		1	1	9.4		SL							0.3
		1	1	6.3		SL							0.3
		1	1	7.6		SL							0.3
		29	29	3.5	2.5-4.4	SL							8.8
		2	2	5.3	4.2-6.5	SL							0.6
		1	1	6.4		SL							0.3
		9	9	6.6	5.1-11.4	SL							2.7
		4	4	5.4	4.8-5.8	SL							1.2
		6	6	4.6	2.7-7.7	SL							1.8
		2	2	7.7	6.6-8.7	SL							0.6
		34	33	5.2	2.6-11.7	SL							10.3
		1	1	4.3		SL							0.3
ADDITIONAL LARVAE CAUGHT		MURAENICAE OPHICHTHICAE SERRIVMERIDAE CYCLOTHICAE SP. SYNOBONTICAE LOPHICHTHES BREGMACOPTIDAE CPHIDIICAE SERRANICAE CARANGICAE LABRIDAE OR SCARIDAE SPHYRAENICAE URANOSCOPICAE BLENNIICAE CALLIONYMICAE GOBIIDAE TRIGLIIDAE UNIDENTIFIED											

TABLE 3. (continued)

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CRUISE DATE			***** LARVAE *****				***** LARVAE *****				2	
D6612 1966			NUMBER		LENGTHS (MM)		NUMBER		LENGTHS (MM)		NO.	
STA. 04			TOTAL MEAS.		MEAN RANGE MEAS.		TOTAL MEAS.		MEAN RANGE MEAS.		EGGS	
M 5 29 09			SAMPLING DEPTH		0-15M		SAMPLING DEPTH		18-33M		EGGS	
MYRICHTHYS SP.			1	1	65.0	TL	1	1	51.0	TL	0.3	
OPHICHTHUS GOMESI			2	2	11.0	10.7-11.4 TL	4	4	13.5	10.7-16.4 TL	0.3	
SARCINELLA ANCHOVIA			4	4	11.3	6.9-15.5 TL	523	66	7.5	3.0-16.4 TL	1.9	
ANCHOA HEPSETIS			57	30	6.8	3.1-9.2 TL					175.5	
ENGRAULIS EURYSTOLE			2	2	6.3	6.2-6.4 SL					19.0	
CERATOSCOPELUS MADRERENSIS							3	3	5.7	5.5-5.8 SL	1.6	
CERATOSCOPELUS WARMINGI							1	1	4.5	SL	0.3	
DIAPHUS SP.							1	1	7.0	SL	0.3	
LAMPANYCTUS NOBILIS							2	2	11.1	5.4-12.8 SL	0.7	
HEMANTHIS VIVANUS							6	5	4.4	3.0-4.8 SL	2.0	
LARIMUS FASCIAUS							1	1	3.3	SL	0.3	
MICROPODON UNDULATUS			5	5	3.3	2.8-3.7 SL	6	6	3.6	3.4-4.0 SL	3.5	
ALYX SP.			1	1	5.5	SL	2	2	6.9	4.1-9.7 SL	1.0	
ELTHYNNUS ALLETTERATUS							1	1	5.7	SL	0.3	
SCOPAREOMORUS CAVALIA							16	16	7.0	4.4-10.8 SL	5.3	
THUNNUS ALBACARES OF ALALUNGA			1	1	5.6	SL					0.3	
PRIONOTUS CAROLINUS			2	2	6.2	4.8-7.7 SL	3	3	4.4	3.5-4.8 SL	1.6	
BETHEUS OCCELLATUS			10	10	9.0	3.2-14.6 SL	36	25	5.3	2.7-8.1 SL	15.0	
CYCLOPSETTA FIMBRIATA			1	1	3.7	SL	6	5	4.9	3.2-7.2 SL	2.3	
ETROPLUS MICROSTOMUS							2	2	3.2	2.7-3.6 SL	0.7	
SYACIUM PAPILLOSUM			11	11	4.5	2.7-7.2 SL	56	25	5.0	3.0-8.9 SL	36.0	
SYMPHURUS SP.							6	6	8.7	5.0-11.5 SL	2.0	
ADDITIONAL LARVAE CAUGHT			SYNDONTIDAE				MURAENIDAE					
			OPHIIDIAE				NETTASTOMATIDAE					
			ATHERINIDAE				CYCLITRONE SP.					
			SERRANIDAE				SYNDONTIDAE					
			CARANGIDAE				PARALEPTIDAE					
			GOBIIDAE				LOPHIIFORMES					
			TRIGLIDAE				OPHIIDIAE					
			UNIDENTIFIED				SERRANIDAE					
							APOGONIDAE					
							CARANGIDAE					
							LABRIDAE OR SCARIDAE					
							SPHYRAENIDAE					
							URANOSCOPIDAE					
							BLENNIIDAE					
							CALLIONYMIDAE					
							GOBIIDAE					
							TRICHIURIDAE					
							SCORPAENIDAE					
							TRIGLIDAE					
							BALISTIDAE					
							TETRAODONTIDAE					
							UNIDENTIFIED					
.....												
N 1 29 09			SAMPLING DEPTH 0-6M									
OPHICHTHUS GOMESI			1	1	79.7	TL					0.1	
ANCHOA HEPSETIS			84	46	8.3	4.4-20.1 TL					10.2	
LARIMUS FASCIAUS			2	2	5.8	5.7-6.0 SL					0.2	
MICROPODON UNDULATUS			17	17	3.3	2.5-4.0 SL					2.1	
PRIONOTUS CAROLINUS			5	5	7.0	5.8-7.8 SL					0.6	
SYACIUM PAPILLOSUM			1	1	11.7	SL					0.1	
ADDITIONAL LARVAE CAUGHT			OPHIIDIAE									
			URANOSCOPIDAE									
			TRIGLIDAE									
.....												
N 2 29 09			SAMPLING DEPTH 0-15M									
ANCHOA HEPSETIS			17	17	8.1	5.1-13.7 TL					5.2	
LAMPANYCTUS ATER			1	1	9.2	SL					0.3	
MICROPODON UNDULATUS			2	2	4.2	4.2-4.3 SL					0.6	
ELTHYNNUS ALLETTERATUS			3	3	6.0	4.3-8.1 SL					0.9	
SCOPAREOMORUS CAVALIA			1	1	7.2	SL					0.3	
BETHEUS OCCELLATUS			1	1	6.8	SL					0.3	
SYACIUM PAPILLOSUM			3	3	5.5	4.7-6.2 SL					0.9	
SYMPHURUS SP.			1	1	5.4	SL					0.3	
ADDITIONAL LARVAE CAUGHT			MURAENIDAE									
			SYNDONTIDAE									
			PARALEPTIDAE									
			LOPHIIFORMES									
			OPHIIDIAE									
			SERRANIDAE									
			CARANGIDAE									
			URANOSCOPIDAE									
			CALLIONYMIDAE									
			GOBIIDAE									
			TRICHIURIDAE									
			TRIGLIDAE									
			BALISTIDAE									
			TETRAODONTIDAE									
			UNIDENTIFIED									

TABLE 3. (continued)

CRUISE DATE DEF 12 1966 STA. 0 M SPECIES ANALYZED A 3 29 09	***** LARVAE *****					***** LARVAE *****					NO. EGGS	NO. PER 100 LARVAE	2 EGGS
	NUMBER	LENGTHS (MM)	MEAS.	RANGE	MEAS.	NUMBER	LENGTHS (MM)	MEAS.	RANGE	MEAS.			
APT. BRIGHTS KENDALLI	1	1	55.5			TL						0.3	
MYRICHTHYS SP.	1	1	55.5			NL						0.3	
OPHICHTHYS GOMESI	1	1	65.3			TL						0.3	
ANCHOA HEPSETUS	112	53	8.9	4.0-17.8	TL							33.9	
LARIMUS FASCIATUS	3	3	3.5	3.2- 3.7	SL							0.9	
MICROPOGON UNULATUS	21	21	4.0	3.2- 4.6	SL							6.4	
SCOMBEROMERUS CAVALIA	1	1	5.0		SL							0.3	
PRIONOTUS CAROLINUS	3	3	4.5	4.3- 4.7	SL							0.9	
BETHEUS DEELLATUS	2	2	5.1	5.0- 5.1	SL							0.6	
CYCLORSETTA FIMBRIATA	1	1	4.5		SL							0.3	
SYACIUM PAPILLOSUM	12	12	4.9	2.2-13.2	SL							3.6	
ADDITIONAL LARVAE CAUGHT													
						ANGUILLIFORMES							
						SYNGONANTHIDAE							
						LOPHIIFORMES							
						OPHIIDIAE							
						CARANGIDAE							
						SERRANIDAE							
						CARANGIDAE							
						LABRIDAE OR SCARIDAE							
						PLENNIIDAE							
						CALLIONYMIDAE							
						GOBIIDAE							
						TRICHIURIDAE							
						TRIGLICAE							
						BALISTIDAE							
						UNIDENTIFIED							
.....													
A 4 29 09													
ANCHOA HEPSETUS	4	4	10.9	8.5-12.5	TL								
MYCTOPIDAE						21	18	8.9	4.5-16.5	TL		8.2	
RENTHOSEMA SUBOBLIQUE						2	2	4.3	3.7- 5.0	SL		0.7	
DIAPHYS SP.						1	1	5.6		SL		0.3	
HYGROPHUM REINHARDT						5	5	5.5	4.1- 8.5	SL		1.7	
HEMANTHIA S. VIANUS						1	1	6.3		SL		0.3	
MICROPOGON UNULATUS						1	1	4.1		SL		0.3	
SCOMBEROMERUS CAVALIA	3	3	8.3	7.9- 8.5	SL	3	3	4.1	3.7- 4.3	SL		1.0	
PRIONOTUS CAROLINUS						4	4	4.5	4.4- 4.6	SL		1.3	
BETHEUS DEELLATUS	12	11	5.1	3.9- 6.8	SL	12	10	5.0	2.6- 8.3	SL		7.6	
CYCLORSETTA FIMBRIATA						2	1	7.2		SL		0.7	
SYACIUM PAPILLOSUM	8	7	7.2	5.2-11.7	SL	30	20	5.4	2.7-10.3	SL		12.4	
SYMPHURUS SP.	4	4	8.6	7.2-10.8	SL	8	7	8.6	6.3-11.4	SL		3.9	
ADDITIONAL LARVAE CAUGHT													
						OPHIICHTHIDAE							
						SYNGONANTHIDAE							
						PARALEPTOICHTHIDAE							
						LOPHIIFORMES							
						OPHIICHTHIDAE							
						CARANGIDAE							
						SERRANIDAE							
						CARANGIDAE							
						LABRIDAE OR SCARIDAE							
						GOBIIDAE							
						BALISTIDAE							
						TETRAODONTIDAE							
						UNIDENTIFIED							

CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2		
STA.	D M	SPECIES ANALYZED					NUMBER	LENGTHS (MM)	NO.	NUMBER	LENGTHS (MM)	NO.	PER 10M	
A 5	29 09						TOTAL MEAS.	MEAN RANGE MEAS.	EGGS	TOTAL MEAS.	MEAN RANGE MEAS.	EGGS	EGGS	
		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M							
			3	3	31.7	23.0-44.0	TL		1	1	36.6		TL	1.2
			1	1	43.6		TL		1	1	17.0		TL	0.6
			11	11	6.7	4.5- 9.7	TL		3	2	5.8	5.8- 5.8	TL	4.3
			1	1	2.9		SL		1	1	4.0		SL	0.6
									3	3	4.6	3.9- 5.1	SL	1.0
			1	1	8.4		SL							0.3
			1	1	8.4		SL		1	1	5.4		SL	0.6
			2	2	8.1	7.1- 9.2	SL							0.7
									1	1	6.2		SL	0.3
									2	2	6.5	6.5- 6.6	SL	0.7
									3	3	7.3	6.3- 8.2	SL	1.0
									1	1	6.9		SL	0.3
									1	1	7.4		SL	0.3
			8	6	4.5	3.2- 5.8	SL		3	3	5.6	5.5- 5.8	SL	3.4
			1	1	6.7		SL							0.3
			2	2	7.7	5.4- 10.1	SL							0.7
			48	25	4.3	2.4- 7.7	SL		5	4	8.0	4.2- 14.4	SL	16.1
			3	3	5.4	4.6- 6.8	SL							1.0
			117	25	3.8	2.4- 7.7	SL		23	21	6.1	2.7- 12.7	SL	42.8
			19	18	4.1	2.9- 8.4	SL		14	13	5.2	3.3- 9.4	SL	10.4
ADDITIONAL LARVAE CAUGHT		ANGUILLIFORMES					ANGUILLA ROSTRATA							
		MURAENIDAE					CONGRIDAE							
		CYCLOPTERIDAE					SYNODONTICAE							
		SYNODONTICAE					PARALEPTICAE							
		LIPHIIDIFORMES					LIPHIIDIFORMES							
		BREGMACETIDAE					BREGMACETIDAE							
		OPHIIDIIDAE					OPHIIDIIDAE							
		CARAPIDAE					CARAPIDAE							
		FISTULARIIDAE					SERRANIDAE							
		SERRANIDAE					GRAMMISTIDAE							
		GRAMMISTIDAE					POMACENTRIDAE							
		PRIACANTHIDAE					LABRIDAE OR SCARIDAE							
		APOGONIDAE					MUGILIDAE							
		CHAETACANTHIDAE					CALLIONYMIDAE							
		LABRIDAE OR SCARIDAE					Gobiidae							
		CALLIONYMIDAE					ACANTHURIDAE							
		TRICHTIRIDAE					GEMPYLIDAE							
		SCORPAENIDAE					SCORPAENIDAE							
		TRIGLIDAE					TRIGLIDAE							
		BALISTIDAE					BALISTIDAE							
		UNIDENTIFIED					UNIDENTIFIED							
.....														
F 1	20 10	SAMPLING DEPTH 0- 6M												
			1	1	10.3		TL						0.1	
			7	6	4.6	3.8- 5.7	SL						0.8	
ADDITIONAL LARVAE CAUGHT		CPHIDIIDAE												
		ATHERINIDAE												
		URANOSCOPIDAE												
		BLENNIIDAE												
		TRIGLIDAE												
		UNIDENTIFIED												
.....														
P 2	20 10	SAMPLING DEPTH 0- 6M												
			2	2	31.1	30.0- 32.2	TL						0.2	
			29	26	6.2	4.1- 9.2	SL						3.5	
			7	7	6.9	5.9- 7.9	SL						0.8	
			2	2	5.0	3.7- 6.3	SL						0.2	
ADDITIONAL LARVAE CAUGHT		CPHIDIIDAE												
		SYNGNATHIDAE												
		SPARIDAE												
		BLENNIIDAE												
		TRIGLIDAE												
		UNIDENTIFIED												
.....														
P 3	20 10	SAMPLING DEPTH 0- 6M												
			3	3	15.2	9.3- 18.8	TL						0.4	
			1	1	5.7		SL						0.1	
			6	4	5.0	4.1- 5.8	SL						0.7	
			8	8	7.3	5.2- 8.1	SL						1.0	
ADDITIONAL LARVAE CAUGHT		OPHIIDIIDAE												
		SYNGNATHIDAE												
		URANOSCOPIDAE												
		BLENNIIDAE												
		CALLIONYMIDAE												
		Gobiidae												
		TRIGLIDAE												
		UNIDENTIFIED												

TABLE 3. (continued)

CRUISE DATE 04612 1966 STA. 04 SPECIES ANALYZED F 4 20 10	***** LARVAE *****					***** LARVAE *****					NO. PER 10M EGGS
	NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS	NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS	
TOTAL MEAS. MEAN RANGE	TOTAL MEAS. MEAN RANGE	TOTAL MEAS. MEAN RANGE	TOTAL MEAS. MEAN RANGE	TOTAL MEAS. MEAN RANGE	TOTAL MEAS. MEAN RANGE	TOTAL MEAS. MEAN RANGE	TOTAL MEAS. MEAN RANGE	TOTAL MEAS. MEAN RANGE	TOTAL MEAS. MEAN RANGE	TOTAL MEAS. MEAN RANGE	
SAMPLING DEPTH 0-15M	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 18-24M	SAMPLING DEPTH 18-24M	SAMPLING DEPTH 18-24M	SAMPLING DEPTH 18-24M	SAMPLING DEPTH 18-24M	
ELOPS SAUPUS	1	1	26.5	NL							0.3
GALLICHELYS PERRIAE	2	2	36.7	33.0-40.5	NL						0.6
MYRICHTHYS SP.	2	2	42.6	42.2-43.0	TL						0.6
MYRIPATHS PUNCTATUS	2	2	36.7	33.0-40.5	TL						0.6
MYRICHTHYS GOMESII	4	4	58.5	41.5-74.5	TL						1.3
ENGRAULIS EURYSTOIE	14	14	15.6	6.0-27.9	TL						4.5
LEPOMUS FASCICATUS						1	1	3.9	SL		0.2
PERICENTRUS DARGELIUS	3	3	5.8	5.1-6.5	SL						1.0
ROTHUS OCELLATUS	11	10	11.6	5.9-17.5	SL	3	3	4.6	3.6-5.5	SL	3.9
CYCLOPSSETTA FIMBRIATA	1	1	4.7		SL						0.3
ETROPUS MICROSTOMUS	1	1	7.2		SL						0.3
SYACIUM PAPILLOSUM	18	18	10.1	6.3-13.5	SL	2	1	9.1		SL	5.8
SYMPHURUS SP.	1										0.3
ADDITIONAL LARVAE CAUGHT	MURAENIDAE CYCLOTROCHNE SP. VINCIGUEFRIA SP. SYNOODONTIDAE LOPHIIFORMES BREGMACEROTIDAE OPHIOTIDAE CARANGIIDAE FISTULARIIDAE SYNGNATHIDAE SERRANIIDAE APOGONIIDAE CARANGIIDAE LABRIDAE OR SCARIDAE URANOSCOPIDAE BLENNIIDAE CALLIONYMIDAE GOBIIDAE TRIGLIDAE TELEOSTOMIDAE UNIDENTIFIED					CONGRIDAE SYNOODONTIDAE BREGMACEROTIDAE OPHIOTIDAE CALLIONYMIDAE GOBIIDAE TRIGLIDAE UNIDENTIFIED					
F 5 20 10	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M					
ENGRAULIS EURYSTOIE	7	2	12.1	5.6-18.6	TL						2.8
PERICENTRUS DARGELIUS	1	1	6.4		SL	2	2	13.5	5.8-21.2	TL	0.3
PERICENTRUS DARGELIUS	1	1	8.3		SL						0.3
ETROPUS SP.	8	8	6.1	4.1-8.8	SL	8	8	5.6	4.3-7.1	SL	5.1
UPCHYCHIS SP.	1	1	3.5		NL						0.3
HEMANTHIA VIVANUS	9	7	6.3	4.7-7.9	SL	5	3	4.6	3.7-5.2	SL	4.4
MICROPPOGON UNULATUS						1	1	4.3		SL	0.3
ALXIS SP.	1	1	9.0		SL						0.3
ROTHUS OCELLATUS	52	22	6.4	3.1-11.1	SL	24	16	5.4	4.2-6.5	SL	23.6
CYCLOPSSETTA FIMBRIATA	2	1	5.9		SL						0.7
ETROPUS MICROSTOMUS						1	1	5.0		SL	0.3
SYACIUM PAPILLOSUM	41	40	5.7	3.4-12.3	SL	8	7	5.6	2.4-9.3	SL	15.0
SYMPHURUS SP.	5	3	9.3	4.1-12.5	SL	3	3	5.5	3.5-8.2	SL	2.5
ADDITIONAL LARVAE CAUGHT	MURAENIDAE CYCLOTROCHNE SP. SYNOODONTIDAE LOPHIIFORMES OPHIOTIDAE CARANGIIDAE FISTULARIIDAE SYNGNATHIDAE SERRANIIDAE APOGONIIDAE CARANGIIDAE LABRIDAE OR SCARIDAE SPHYRAENIIDAE CALLIONYMIDAE GOBIIDAE TRIGLIDAE PALISTIDAE UNIDENTIFIED					SYNOODONTIDAE LOPHIIFORMES BREGMACEROTIDAE OPHIOTIDAE CARANGIIDAE SERRANIIDAE LABRIDAE OR SCARIDAE BLENNIIDAE CALLIONYMIDAE GOBIIDAE UNIDENTIFIED					

TABLE 3. (continued)

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CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2		
06614 1566		NUMBER		LENGTHS (MM)		NO. EGGS	NUMBER		LENGTHS (MM)		NO. EGGS	NO. PER 10M ²		
STA. 0 M SPECIES ANALYZED		TOTAL MEAS.		MEAN RANGE MEAS.			TOTAL MEAS.		MEAN RANGE MEAS.			LARVAE		
A 1 C4 12		SAMPLING DEPTH 0-3M												
CLUPEA HARENGUS HARENGUS		27	23	20.8	10.4-25.0	TL						1.6		
GADUS MORHUA		2	2	4.9	4.6- 5.2	SL	1					0.1	0.1	
MERLUCCIIUS BILINEARIS		2	1	6.5		NL	0					0.1	0.0	
AMMODYTES SP.		11	11	5.7	5.1- 6.2	TL						0.7		
PARALICHTHYS DENTATILS		3	3	7.9	5.0-11.5	SL	0					0.2	0.0	
A 2 C4 12		SAMPLING DEPTH 0-15M												
CLUPEA HARENGUS HARENGUS		5	5	14.3	8.1-22.5	TL						1.5		
GADUS MORHUA		2	2	4.0	3.5- 4.4	SL	0					0.6	0.0	
MERLUCCIIUS BILINEARIS		2	2	5.6	5.4- 5.8	NL	0					0.6	0.0	
ADDITIONAL LARVAE CAUGHT		SYNGNATHIDAE												
		SPARIDAE												
A 3 C4 12		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M							
CLUPEA HARENGUS HARENGUS		5	5	21.4	18.8-24.4	TL	5	5	21.2	17.4-24.7	TL	3.0		
ENCHELIOPLUS CIMBRIUS							3	3	4.3	3.8- 4.6	SL	0	0.0	
GADUS MORHUA		8	8	4.1	3.7- 4.4	SL	73	6	4.3	3.7- 5.4	SL	85	36.2	
MERLUCCIIUS BILINEARIS		2	2	5.9	5.9- 6.0	NL	0	1	3.1		NL	0	0.0	
PARALICHTHYS DENTATILS		1	1	7.0		SL	0					0.3	0.0	
ADDITIONAL LARVAE CAUGHT		SPARIDAE												
A 4 C4 12		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M							
CLUPEA HARENGUS HARENGUS		17	17	17.6	13.7-24.4	TL	19	19	17.5	14.4-22.5	TL	8.3		
ENCHELIOPLUS CIMBRIUS		1	1	3.9		SL	0	7	7	3.8	3.2- 4.7	SL	0	0.0
GADUS MORHUA							0	2	2	4.6	2.9- 6.2	SL	0	0.0
UROPHYCIS SP.							0	1	1	4.4		NL	0	0.0
MERLUCCIIUS BILINEARIS		5	5	5.4	4.9- 5.7	NL	0	6	6	5.0	4.2- 6.4	NL	0	0.0
PARALICHTHYS DENTATILS		6	6	5.3	4.1- 8.6	SL	0	15	15	4.5	3.3- 6.8	SL	0	0.0
ADDITIONAL LARVAE CAUGHT							UNIDENTIFIED							
A 5 C4 12		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M							
CLUPEA HARENGUS HARENGUS		23	23	16.4	10.6-21.5	TL	28	28	16.2	11.2-15.6	TL	16.2		
ENCHELIOPLUS CIMBRIUS		1	1	4.6		SL	0	2	2	3.9	3.9- 3.9	SL	0	0.0
GADUS MORHUA		1	1	7.6		SL	0	2	2	5.1	4.2- 5.9	SL	0	0.0
UROPHYCIS SP.		2	2	8.4	8.1- 8.7	NL						0.7		
MERLUCCIIUS BILINEARIS							0	3	3	4.9	4.1- 5.5	NL	0	0.0
PARALICHTHYS DENTATILS							0	1	1	5.9		SL	0	0.0
A 6 C4 12		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M							
CLUPEA HARENGUS HARENGUS		30	30	16.0	11.9-19.9	TL	41	41	16.3	11.9-22.5	TL	22.7		
ENCHELIOPLUS CIMBRIUS		1	1	6.1		SL	0					0.3	0.0	
GADUS MORHUA		7	7	4.0	3.4- 5.3	SL	1	6	6	3.7	3.2- 4.1	SL	2	4.1
POLLACHIUS VIRENS		4	4	6.0	5.1- 6.6	SL	0	2	2	5.5	3.9- 7.0	SL	0	0.0
MERLUCCIIUS BILINEARIS		3	3	6.3	6.0- 6.6	NL	0	2	2	3.6	2.8- 4.4	NL	0	0.0
A 7 C4 12		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M							
CLUPEA HARENGUS HARENGUS							3	3	18.3	17.5-18.8	TL	1.0		
POLLACHIUS VIRENS		1	1	9.1		SL	0					0.3	0.0	
P 1 C3 12		SAMPLING DEPTH 0-6M												
CLUPEA HARENGUS HARENGUS		6	6	15.8	8.4-22.5	TL						0.7		
ENCHELIOPLUS CIMBRIUS		2	2	2.9	1.9- 3.8	SL	0					0.2	0.0	
GADUS MORHUA		3	3	3.4	3.2- 3.7	SL	16					0.4	1.5	
MERLUCCIIUS BILINEARIS		1	1	6.1		NL	0					0.1	0.0	
AMMODYTES SP.		41	41	5.2	4.4- 6.9	TL						5.0		
PEPPIUS TRIACANTHUS		1	1	70.1		SL						0.1		
PARALICHTHYS DENTATILS		2	2	10.3	7.9-12.8	SL	0					0.2	0.0	
SCOPHTHALMUS AQUOSUS		3	3	6.0	4.9- 7.7	SL						0.4		
P 2 C3 12		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-24M							
CLUPEA HARENGUS HARENGUS		6	6	17.3	12.0-23.0	TL	5	5	18.1	11.4-24.4	TL	3.3		
ENCHELIOPLUS CIMBRIUS		1	1	5.6		SL	0	1	1	4.9		SL	0	0.0
GADUS MORHUA		8	7	4.2	3.4- 5.3	SL	51	3	3	4.1	3.9- 4.6	SL	62	25.7
POLLACHIUS VIRENS		1	1	3.4		SL	0	1	1	4.2		SL	0	0.0
MERLUCCIIUS BILINEARIS		1	1	3.6		NL	0	2	2	5.6	3.0- 8.2	NL	0	0.0
ETROPLUS MICROSTOMUS		1	1	5.0		SL						0.3		
PARALICHTHYS DENTATILS							0	1	1	5.5		SL	0	0.0
SCOPHTHALMUS AQUOSUS		6	6	4.2	3.7- 5.2	SL		1	1	3.9		SL	2.0	

TABLE 3. (continued)

CRUISE DATE STA. NO. SPECIES ANALYZED	***** LARVAE *****					***** LARVAE *****					2	
	NUMBER TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE	MEAS.	NO. EGGS	NUMBER TOTAL MEAS.	MEAN LENGTHS (MM)	RANGE	MEAS.	NO. EGGS	NO. PER LARVAE	10M EGGS
B 3 C3 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M						
CLUPEA HARENGUS HARENGUS	3	3	23.7	21.0-25.0	TL	5	5	21.0	18.8-23.9	TL	2.6	
ENCYLIOPUS CIMBRIUS	2	2	5.5	5.4- 5.6	SL	0					0.7	0.0
GADUS MORHUA	10	9	4.4	3.9- 5.7	SL	59	9	4.4	3.8- 5.3	SL	45	6.0 32.7
POLLACHIUS VIRENS	1	1	3.4		SL	0	1	1	2.5	SL	0	0.6 0.0
UPHYSICIS SP.	1	1	3.7		NL	0	2	2	7.0	2.7-11.3	NL	1.0
MERLUCCIIUS BILINEARIS	19	18	5.5	3.2- 7.2	NL	0	25	25	5.9	4.2- 7.6	NL	14.0 0.0
AMMODYTES SP.	1	1	5.1		TL						0.3	
ETROPUS MICROSTOMUS						1	1	6.7		SL	0.3	
PARALICHTHYS CENTATUS	12	12	7.1	4.0-11.3	SL	0	21	21	6.2	3.6-10.1	SL	10.6 0.0
SCOPHTHALMUS AQUOSUS	9	9	4.9	3.3- 7.1	SL		14	14	4.5	2.9- 6.9	SL	7.4
.....												
B 4 C3 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M						
CLUPEA HARENGUS HARENGUS	15	15	18.7	15.0-22.5	TL	27	25	18.7	13.7-23.1	TL		13.5
ENCYLIOPUS CIMBRIUS	4	4	3.5	2.7- 4.6	SL	0	3	3	3.8	2.8- 5.1	SL	2.2 0.0
GADUS MORHUA						0					1	0.0 0.3
POLLACHIUS VIRENS	3	3	3.3	3.3- 3.4	SL	0	2	2	4.1	3.5- 4.6	SL	1.6 0.0
UPHYSICIS SP.						1	1	5.5		NL	0.3	
MERLUCCIIUS BILINEARIS	4	4	4.1	2.9- 6.5	NL	0	5	5	8.7	4.5-23.2	NL	2.9 0.0
PARALICHTHYS CENTATUS	5	5	6.3	5.1- 7.5	SL	0	2	2	5.1	4.9- 5.4	SL	2.2 0.0
.....												
B 5 C4 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M						
CLUPEA HARENGUS HARENGUS	68	37	15.5	11.0-20.0	TL	109	48	14.9	12.0-20.0	TL		56.7
ENCYLIOPUS CIMBRIUS	1	1	4.2		SL	0					0	0.3 0.0
POLLACHIUS VIRENS	1	1	3.9		SL	0	1	1	3.7		0	0.6 0.0
MERLUCCIIUS BILINEARIS	2	2	8.8	5.7-11.9	NL	0					0	0.7 0.0
PARALICHTHYS CENTATUS	1	1	5.5		SL	0	1	1	6.3		0	0.6 0.0
.....												
B 6 C4 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M						
CALICHELYS PEPPYAE						1	1	67.5		NL		0.3
MYRAPHIS PUNCTATUS						1	1	67.5		TL		0.3
CLUPEA HARENGUS HARENGUS	29	28	15.5	13.0-19.0	TL	35	34	15.6	13.0-20.0	TL		20.4
MERLUCCIIUS BILINEARIS	1	1	8.5		NL	0	1	1	6.5		0	0.6 0.0
ADDITIONAL LARVAE CAUGHT COBITOAE												
.....												
B 7 C4 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M						
CLUPEA HARENGUS HARENGUS	9	8	15.7	14.0-18.0	TL		18	17	16.1	12.0-20.0	TL	8.4
ENCYLIOPUS CIMBRIUS						1					0	0.0 0.3
GADUS MORHUA						0	3	3	7.2	5.8- 8.1	SL	1.0 0.0
POLLACHIUS VIRENS	2	2	6.4	4.6- 8.2	SL	0	5	4	4.7	4.1- 5.1	SL	2.3 0.0
.....												
C 1 C3 12	SAMPLING DEPTH 0-6M											
CLUPEA HARENGUS HARENGUS	2	2	7.0	1.5-12.5	TL							0.2
GADUS MORHUA	1	1	3.5		SL	3						0.1 0.4
UPHYSICIS SP.	2	2	5.5	5.5- 5.6	NL							0.2
PARALICHTHYS CENTATUS	1	1	4.4		SL	0						0.1 0.0
SCOPHTHALMUS AQUOSUS	4	4	5.2	4.4- 5.8	SL							0.5
.....												
C 2 C3 12	SAMPLING DEPTH 0-6M											
BREVORTIA TYRANNUS	1	1	22.0		TL							0.1
GADUS MORHUA	19	18	3.3	2.8- 3.7	SL	248						2.3 30.1
UPHYSICIS SP.	2	2	6.3	6.0- 6.7	NL							0.2
PRIONOTUS CARLINUS	1	1	6.0		SL							0.1
PARALICHTHYS CENTATUS	4	4	4.5	3.8- 6.0	SL	0						0.5 0.0
SCOPHTHALMUS AQUOSUS	2	2	5.7	5.6- 5.7	SL							0.2
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED												
.....												
C 3 C3 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-24M						
BREVORTIA TYRANNUS	1	1	21.5		TL							0.3
CLUPEA HARENGUS HARENGUS	1	1	16.5		TL							0.3
ENCYLIOPUS CIMBRIUS	1	1	14.7		SL	0					0	0.3 0.0
GADUS MORHUA	6	5	3.0	2.8- 3.4	SL	56	2	1	3.5		46	2.2 24.6
POLLACHIUS VIRENS	2	1	3.3		SL	0					0	0.6 0.0
UPHYSICIS SP.						1	1	3.3		NL		0.2
MERLUCCIIUS BILINEARIS						0	1	1	5.1		0	0.2 0.0
PARALICHTHYS CENTATUS	6	6	6.1	3.9- 8.7	SL	0	12	12	6.0	3.3- 9.3	SL	3.8 0.0
SCOPHTHALMUS AQUOSUS	2	2	7.0	6.5- 7.5	SL		8	8	5.0	4.0- 6.0	SL	1.9
ADDITIONAL LARVAE CAUGHT UNIDENTIFIED												
.....												
C 4 C3 12	SAMPLING DEPTH 0-15M					SAMPLING DEPTH 1E-33M						
ENCYLIOPUS CIMBRIUS	1	1	15.5		SL	0	1	1	4.4		0	0.6 0.0
GADUS MORHUA	4	4	3.8	3.5- 4.1	SL	5	1	1	3.2		4	1.5 2.8
UPHYSICIS SP.	1	1	6.8		NL		1	1	5.8		0	0.6
MERLUCCIIUS BILINEARIS	5	5	15.6	4.1-56.5	NL	0	8	8	5.0	3.6- 7.4	NL	4.2 0.0
ETROPUS MICROSTOMUS	1	1	5.0		SL		1	1	4.6		0	0.6
PARALICHTHYS CENTATUS	7	7	6.5	4.4- 8.0	SL	0	10	10	7.2	3.3- 9.1	SL	5.4 0.0
SCOPHTHALMUS AQUOSUS	8	8	5.1	3.3- 6.9	SL		11	11	5.4	3.7- 7.3	SL	6.1

CRUISE DATE P6614 1966		***** LARVAE *****							***** LARVAE *****								
STA.	D 4 SPECIES ANALYZED	TOTAL MEAS.	MEAN DEPTH	RANGE	IMM MEAS.	ND. EGGS		TOTAL MEAS.	MEAN DEPTH	RANGE	IMM MEAS.	ND. EGGS		NO. PER 10M LAEVAE	2 EGGS		
C 5	C2 12	SAMPLING	DEPTH	0-15M				SAMPLING	DEPTH	18-33M							
	CLUEA HARENGIS HARENGUS	1	1	10.0		TL								0.3			
	ENGRAULIS EURYSTOLE	1	1	12.2		TL								0.3			
	GADUS MORHUA						1						0	0.0	0.3		
	HYPOMYXIS SP.	1	1	3.8		NL		2	2	7.6	5.4-9.5	NL		1.0			
	MERLUCCIIUS BILINEARIS	25	25	5.7	3.5-7.4	NL	0	22	22	5.7	3.5-8.4	NL	0	14.8	0.0		
	ETREPOS MICROSTOMUS	2	2	6.4	5.1-7.7	SL								0.7			
	PARALICHTHYS DENTATUS	8	8	6.4	4.4-9.4	SL	1	6	6	6.4	6.5-10.6	SL	0	4.4	0.3		
	SCOPHTHALMUS AQUOSUS	3	3	7.0	6.0-9.0	SL								1.0			
	ADDITIONAL LARVAE CAUGHT																
C 6	C2 12	SAMPLING	DEPTH	0-15M				SAMPLING	DEPTH	18-33M							
	CLUEA HARENGIS HARENGUS	1	1	23.0		TL		1	1	18.5		TL		0.6			
	EUCHELYOPIUS CIMBRIUS						0	1	1	4.1		SL	0	0.3	0.0		
	GADUS MORHUA	1	1	5.7		SL	0	1	1				0	0.6	0.0		
	POLLACHIUS VIRENS	2	2	3.1	2.9-3.2	SL	0	1	1	3.7		SL	0	0.9	0.0		
	MERLUCCIIUS BILINEARIS	19	15	7.3	3.1-33.9	NL	0	21	21	5.1	3.1-7.7	NL	0	12.7	0.0		
	CITHARICHTHYS ARCIFRONS	1	1	4.8		SL		2	2	12.3	11.5-12.6	SL		1.0			
	ETREPOS MICROSTOMUS	1	1	8.0		SL								0.3			
	PARALICHTHYS DENTATUS	14	14	6.9	4.4-9.7	SL	0	8	8	5.9	3.2-8.4	SL	0	6.9	0.0		
	SCOPHTHALMUS AQUOSUS	2	2	4.7	4.4-5.0	SL		8	8	5.6	4.8-6.2	SL		3.3			
	ADDITIONAL LARVAE CAUGHT							UNIDENTIFIED									
C 7	C2 12	SAMPLING	DEPTH	0-15M				SAMPLING	DEPTH	18-33M							
	CLUEA HARENGIS HARENGUS	13	13	16.6	15.0-21.5	TL		38	38	17.1	14.8-21.3	TL		16.6			
	CERATOSCOPUS MAHERENSIS	7	7	7.6	6.3-9.9	SL		5	5	7.7	6.8-8.5	SL		3.8			
	DIAPHUS SP.	1	1	7.2		SL								0.3			
	EUCHELYOPIUS CIMBRIUS						0	2	2	4.6	3.3-5.8	SL	0	0.7	0.0		
	POLLACHIUS VIRENS						0	1	1	4.8		SL	0	0.3	0.0		
	MERLUCCIIUS BILINEARIS	17	15	7.1	3.2-12.8	NL	0	7	7	11.6	4.4-43.1	NL	0	7.4	0.0		
	CITHARICHTHYS ARCIFRONS							1	1	10.1		SL		0.3			
	PARALICHTHYS DENTATUS	1	1	8.0		SL	0	1	1	8.3		SL	0	0.6	0.0		
	ADDITIONAL LARVAE CAUGHT							Gobiidae									
C 8	C2 12	SAMPLING	DEPTH	0-15M				SAMPLING	DEPTH	18-33M							
	CERATOSCOPUS MAHERENSIS	16	16	7.2	5.0-8.9	SL		13	13	8.1	6.8-10.4	SL		9.1			
	ADDITIONAL LARVAE CAUGHT							MUGILIDAE									
								Gobiidae									
D 1	C1 12	SAMPLING	DEPTH	0-6M													
	BREVORTIA TYRANNUS	2	2	21.7	20.0-23.5	TL								0.2			
	GADUS MORHUA	1	1	3.9		SL	0							0.1	0.0		
	MICROPYGON UNDULATUS	1	1	8.6		SL								0.1			
	PRICNOTUS CARLINUS	2	2	5.8	5.6-6.0	SL								0.2			
	PARALICHTHYS DENTATUS	3	3	11.7	11.1-12.0	SL	0							0.4	0.0		
	SCOPHTHALMUS AQUOSUS	4	4	8.3	7.6-9.2	SL								0.5			
C 2	C1 12	SAMPLING	DEPTH	0-6M													
	ENGRAULIS EURYSTOLE	1	1	17.5		TL								0.1			
	GADUS MORHUA						5							0.0	0.6		
	PEPRILUS TRIACANTHUS	1	1	50.4		SL								0.1			
	PRICNOTUS CARLINUS	1	1	7.6		SL								0.1			
	PARALICHTHYS DENTATUS	4	4	10.5	9.3-11.0	SL	0							0.5	0.0		
	SCOPHTHALMUS AQUOSUS	20	20	6.5	3.8-9.7	SL								2.4			
	ADDITIONAL LARVAE CAUGHT							Gobiidae									
D 3	C1 12	SAMPLING	DEPTH	0-15M													
	GADUS MORHUA	3	3	3.4	3.3-3.4	SL	55							0.9	16.7		
	PARALICHTHYS DENTATUS	16	16	5.2	3.5-8.6	SL	0							4.8	0.0		
	SCOPHTHALMUS AQUOSUS	170	50	4.6	2.9-11.3	SL								51.5			
	ADDITIONAL LARVAE CAUGHT							UNIDENTIFIED									
C 4	C2 12	SAMPLING	DEPTH	0-15M													
	GADUS MORHUA	5	5	3.1	3.0-3.2	SL	52							1.5	15.8		
	HYPOMYXIS SP.	6	6	3.5	2.7-4.4	NL								1.8			
	PARALICHTHYS DENTATUS	22	22	5.2	4.1-6.5	SL	0							6.7	0.0		
	SCOPHTHALMUS AQUOSUS	190	50	4.6	2.7-7.0	SL								57.6			
D 5	C2 12	SAMPLING	DEPTH	0-15M				SAMPLING	DEPTH	18-24M							
	GADUS MORHUA	2	2	3.7	3.7-3.7	SL	8						3	0.6	2.9		
	HYPOMYXIS SP.	30	23	3.5	2.3-5.4	NL		16	14	4.4	2.5-9.2	NL		11.8			
	CITHARICHTHYS ARCIFRONS	1	1	4.0		SL								0.3			
	ETREPOS MICROSTOMUS	3	3	4.9	4.7-5.1	SL								1.0			
	PARALICHTHYS DENTATUS	59	59	4.8	2.8-7.3	SL	0	41	41	5.1	3.1-11.0	SL	0	24.8	0.0		
	SCOPHTHALMUS AQUOSUS	169	50	4.0	2.8-6.0	SL		105	50	4.1	2.7-6.2	SL		68.9			
	ADDITIONAL LARVAE CAUGHT							SYNGNATHIDAE									
								SERRANIDAE									
								UNIDENTIFIED									

TABLE 3. (continued)

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CRUISE DATE 06614 1966 STA. 04		***** LARVAE *****						***** LARVAE *****						NO. PER 10M ² LARVAE	
SPECIES ANALYZED		NUMBER	LENGTHS (MM)	MEAS.	NO.	EGGS	NUMBER	LENGTHS (MM)	MEAS.	NO.	EGGS				
		TOTAL MEAS.	RANGE				TOTAL MEAS.	RANGE							
C 6 C2 12		SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M							
CLUEFA HARENGIS HARENGUS		2	2	5.2	3.4- 7.0	SL	0	3	3	5.1	3.7- 6.3	SL	0	1.6	C.C
ENCHELORHYNCHUS CIMBRIUS		1	1	5.2		SL	0	3	3	5.0	4.7- 5.2	SL	0	1.3	0.0
GADUS MORHUA		2	2	3.8	3.7- 4.0	NL		8	7	5.3	3.0- 5.1	NL		3.3	
UROPHYCHIS SP.		18	17	4.8	3.1- 6.9	NL	0	18	17	5.1	2.7- 6.5	NL	0	11.4	0.0
MERLUCCIIUS BILINEARIS								1	1	3.0		SL		0.3	
PEPRILUS TRIACANTHUS		3	3	6.1	5.4- 6.6	SL		3	3	9.0	5.7- 12.1	SL		1.9	
CITHARICHTHYS ARCTIFRONS		1	1	6.7		SL		1	1	4.7		SL		0.6	
ETROPUS MICROSTOMUS		7	7	7.2	4.7- 8.9	SL	0	23	23	5.6	3.7- 5.2	SL	0	9.8	C.C
PARALICHTHYS DENTATUS		8	8	5.2	4.0- 6.5	SL		56	48	4.9	2.9- 6.7	SL		21.1	
SCOPHTHALMUS AQUOSUS															
ADDITIONAL LARVAE CAUGHT								SPARIDAE UNIDENTIFIED							
.....															
C 7 C2 12		SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M							
CLUEFA HARENGIS HARENGUS		1	1	18.0		TL								0.3	
ENCHELORHYNCHUS CIMBRIUS		1	1	5.4		SL	0					0		0.3	0.0
MERLUCCIIUS BILINEARIS		1	1	6.2		NL	0	1	1	6.1		NL	0	0.6	0.0
CITHARICHTHYS ARCTIFRONS		1	1	6.6		SL								0.3	
PARALICHTHYS DENTATUS							0	2	2	4.5	4.5- 4.6	SL	0	0.7	C.C
SCOPHTHALMUS AQUOSUS		1	1	3.9		SL		2	2	5.6	5.3- 5.8	SL		1.0	
.....															
C 8 C2 12		SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M							
CLUEFA HARENGIS HARENGUS		2	2	18.0	17.0- 19.0	TL		3	3	17.0	16.0- 17.5	TL		1.6	
CRATOSCELLUS MANDERSENIS								7	7	6.1	5.4- 6.7	SL		2.3	
UROPHYCHIS SP.		1	1	2.8		NL								0.3	
PARALICHTHYS DENTATUS							0	3	3	7.8	7.1- 8.6	SL	0	1.0	C.C
.....															
E 1 C9 11		SAMPLING DEPTH	0- 6M												
REFOVORTIA TYRANNUS		5	5	19.9	18.5- 20.5	TL								0.6	
SCOPHTHALMUS AQUOSUS		2	2	5.8	4.7- 6.8	SL								0.2	
ADDITIONAL LARVAE CAUGHT		LABRIDAE OR SCARIDAE GOBIIDAE SCORPAENICAE													
.....															
E 2 C9 11		SAMPLING DEPTH	0- 6M												
PRIONOTUS CARLINUS		1	1	26.7		SL								0.1	
PARALICHTHYS DENTATUS							4							0.0	0.5
SCOPHTHALMUS AQUOSUS		12	12	5.5	3.3- 7.5	SL								1.5	
ADDITIONAL LARVAE CAUGHT		SYNGNATHIDAE GOBIIDAE													
.....															
F 3 10 11		SAMPLING DEPTH	0- 6M												
GADUS MORHUA							2							0.0	0.2
PARALICHTHYS DENTATUS		1	1	8.2		SL	27							0.1	3.2
SCOPHTHALMUS AQUOSUS		27	27	4.0	2.9- 5.4	SL								3.3	
ADDITIONAL LARVAE CAUGHT		OPHIIDAE GOBIIDAE													
.....															
F 4 10 11		SAMPLING DEPTH	0-15M												
PRIONOTUS CARLINUS		1	1	5.8		SL								0.3	
PARALICHTHYS DENTATUS		6	6	6.0	4.6- 7.2	SL	17							1.8	5.2
SCOPHTHALMUS AQUOSUS		4	4	3.6	3.0- 4.7	SL								1.2	
.....															
F 5 10 11		SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M							
UROPHYCHIS SP.		1	1	4.9		NL								0.3	
PEPRILUS TRIACANTHUS		4	4	24.0	14.2- 42.5	SL								1.3	
PRIONOTUS CARLINUS		1	1	4.4		SL							25	0.3	
PARALICHTHYS DENTATUS							7							0.0	10.4
.....															
F 6 10 11		SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M							
UROPHYCHIS SP.		11	9	4.5	1.5- 8.2	NL		3	3	3.2	2.5- 3.8	NL		4.3	
MERLUCCIIUS BILINEARIS		1	1	3.6		NL	1	4	1	2.8		NL	0	1.6	0.3
PRIONOTUS CARLINUS								1	1	5.2		SL		0.3	
CITHARICHTHYS ARCTIFRONS		1	1	4.4		SL		3	3	4.7	4.4- 5.4	SL		1.3	
PARALICHTHYS DENTATUS		2	2	6.4	6.3- 6.5	SL	8	9	5.4	3.1- 6.8	SL	7		3.6	4.7
SCOPHTHALMUS AQUOSUS		1	1	2.9		SL		3	3	3.2	3.0- 3.3	SL		1.3	
.....															
F 7 10 11		SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M							
UROPHYCHIS SP.		15	12	9.8	6.8- 25.0	NL								5.0	
MERLUCCIIUS BILINEARIS		1	1	29.6		NL	0	2	2	5.0	4.0- 6.1	NL	0	1.0	0.0
PEPRILUS TRIACANTHUS								4	4	30.1	23.6- 40.3	SL		1.3	
CITHARICHTHYS ARCTIFRONS		2	2	12.8	11.3- 14.3	SL		8	8	1.6	5.1- 14.3	SL		3.3	
PARALICHTHYS DENTATUS							0	1	1	7.0		SL	0	0.3	C.C
SCOPHTHALMUS AQUOSUS								1	1	7.6		SL		0.3	

TABLE 3. (continued)

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CRUISE DATE STA. D M SPECIES ANALYZED	***** LARVAE *****					***** LARVAE *****					2	
	NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS	NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS	NO. PER 10M	EGGS
F 8 19 11	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	LARVAE	
CERATOSCOPELUS MADERENSIS												
LEPHEUS AMERICANUS	1	1	4.6	TL		1	1	7.2	SL		0.3	
UROPHYCIS SP.	2	1	17.2	NL		1	1	3.8	NL		0.3	
MERLUCCIIUS BILINEARIS	1	1	23.8	NL	8	1	1	6.0	NL	0	0.9	
ADDITIONAL LARVAE CAUGHT						Gobiidae					0.6	2.7
F 1 11 11	SAMPLING DEPTH	0-6M										
BREVORTIA TYRANNUS	1	1	21.0	TL							0.1	
ANCHIA MITCHILLI	2	2	36.2	21.5-51.0	TL						0.2	
MICROPOGON UNDULATUS	1	1	9.4	SL							0.1	
PARALICHTHYS DENTATUS	1	1	10.1	SL	0						0.1	0.0
ADDITIONAL LARVAE CAUGHT						Gobiidae						
F 2 11 11	SAMPLING DEPTH	0-6M										
BREVORTIA TYRANNUS	3	3	20.7	19.5-21.5	TL						0.4	
ANCHIA MITCHILLI	6	6	56.0	50.0-60.0	TL						0.7	
MICROPOGON UNDULATUS	5	5	11.9	9.9-13.7	SL						0.6	
PARALICHTHYS DENTATUS	3	3	11.2	10.5-12.1	SL	0					0.4	0.6
SCOPHTHALMUS AQUOSUS	2	2	7.4	5.4-9.3	SL						0.2	
F 3 11 11	SAMPLING DEPTH	0-15M										
BREVORTIA TYRANNUS	2	2	15.2	15.0-15.5	TL						0.6	
ANCHIA MITCHILLI	4	4	62.0	59.5-65.0	TL						1.2	
PARALICHTHYS DENTATUS	2	2	10.5	10.5-10.6	SL	0					0.6	0.0
SCOPHTHALMUS AQUOSUS	6	6	5.8	5.1-6.7	SL						1.8	
ADDITIONAL LARVAE CAUGHT						Gobiidae						
F 4 11 11	SAMPLING DEPTH	0-15M										
UROPHYCIS SP.	1	1	3.1	NL							0.3	
CENTROPRISTIS STRIATA	1	1	5.2	SL							0.3	
PERICHTHUS CARLINUS	1	1	5.5	SL							0.3	
ETROPUS MICROSTOMUS	1	1	4.7	SL							0.3	
PARALICHTHYS DENTATUS	1	1	9.0	SL	14						0.3	4.2
SCOPHTHALMUS AQUOSUS	6	6	3.7	2.7-5.0	SL						1.8	
ADDITIONAL LARVAE CAUGHT						Gobiidae						
F 5 11 11	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-24M					
GADUS MORhua					0					1	0.0	0.2
UROPHYCIS SP.	4	2	3.2	3.2-3.3	NL	2	2	2.5	2.2-3.1	NL	1.6	
MERLUCCIIUS BILINEARIS	2	2	3.1	2.5-3.8	NL	0				0	0.6	0.0
PERICHTHUS CARLINUS	1	1	4.8	SL							0.3	
CITHARICHTHYS ARCTIFRONS						2	2	8.6	5.1-12.0	SL	0.3	
ETROPUS MICROSTOMUS						1	1	4.0	SL		0.2	
PARALICHTHYS DENTATUS					17	8	8	3.8	3.3-5.5	SL	1.3	5.5
SCOPHTHALMUS AQUOSUS						7	6	3.1	2.2-3.7	SL	1.1	
F 6 12 11	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M					
UROPHYCIS SP.	11	8	6.7	3.7-17.0	NL	12	12	6.4	3.3-14.7	NL	7.3	
MERLUCCIIUS BILINEARIS	4	4	15.9	8.5-24.2	NL	4	4	8.2	6.0-12.9	NL	2.5	C.C
CITHARICHTHYS ARCTIFRONS	4	4	6.6	5.1-7.6	SL	8	8	10.7	4.7-21.1	SL	3.9	
ETROPUS MICROSTOMUS						2	2	6.2	6.0-6.3	SL	0.7	
PARALICHTHYS DENTATUS	3	3	5.7	4.6-6.9	SL	6	6	7.1	4.6-10.5	SL	2.9	17.0
SCOPHTHALMUS AQUOSUS	3	3	3.4	2.7-4.1	SL	3	3	6.3	3.6-8.2	SL	1.9	
ADDITIONAL LARVAE CAUGHT						Gobiidae						
F 7 18 11	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M					
CERATOSCOPELUS MADERENSIS						3	3	7.9	6.6-9.8	SL	1.0	
MERLUCCIIUS BILINEARIS	36	36	29.5	20.4-36.5	NL	61	61	21.6	16.7-39.3	NL	21.1	0.0
CITHARICHTHYS ARCTIFRONS						2	2	15.5	15.4-15.6	SL	0.7	
ADDITIONAL LARVAE CAUGHT						Gobiidae						
F 1 11 11	SAMPLING DEPTH	0-6M										
BREVORTIA TYRANNUS	100	55	20.7	17.0-25.0	TL						12.1	
G 2 11 11	SAMPLING DEPTH	0-6M										
BREVORTIA TYRANNUS	5	5	16.5	14.5-18.0	TL						0.6	
MICROPOGON UNDULATUS	2	2	6.1	5.9-6.4	SL						0.2	
PARALICHTHYS DENTATUS	1	1	10.3	SL	0						0.1	0.0
SCOPHTHALMUS AQUOSUS	4	4	6.0	4.7-7.1	SL						0.5	

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CRUISE DATE		***** LARVAE *****										***** LARVAE *****										NO. PER 100		
STA.	D M	SPECIES ANALYZED	TOTAL MEAS.	MEAN	RANGE	MEAS.	NO. EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	NO. EGGS	LARVAE	EGGS										
G 3	11 11		SAMPLING DEPTH 0-15M																					
		BREVORTIA TYFANNUS	5	5	18.6	15.0-24.0	TL							1.5										
		ANCHNA MITCHILLI	1	1	70.0		TL							0.3										
		UROPHYCIS SP.	2	2	3.4	2.0- 4.9	NL							0.6										
		ETROPUS MICROSTOMUS	1	1	10.9		SL							0.3										
		PARALICHTHYS DENTATIS	6	6	10.2	6.4-11.4	SL	0						1.8										
		SCOPHTHALMUS AQUOSUS	12	12	4.8	3.1- 6.2	SL							3.6										
G 4	11 11		SAMPLING DEPTH 0-15M																					
		BREVORTIA TYFANNUS	1	1	5.0		TL							0.3										
		UROPHYCIS SP.	3	3	5.2	2.3- 9.3	NL							0.9										
		ETROPUS MICROSTOMUS	5	5	6.7	4.0- 9.1	SL							1.5										
		PARALICHTHYS DENTATIS	7	7	3.4	2.7- 3.9	SL	43						2.1										
		SCOPHTHALMUS AQUOSUS	14	14	2.9	2.4- 4.2	SL							4.2										
C 5	11 11		SAMPLING DEPTH 0-15M										SAMPLING DEPTH 18-33M											
		BREVORTIA TYFANNUS	1	1	9.3		TL							0.3										
		UROPHYCIS SP.	20	16	6.0	2.6-20.0	NL		17	13	3.3	1.5- 6.1	NL	11.7										
		MERLUCCIIUS BILINEARIS	4	4	12.7	3.8-22.6	NL	1	1	1	7.3		NL	1.5										
		PRIONOTUS CARLINUS						1	1	1	6.0		SL	0.3										
		CITHARICHTHYS ARCTIFRONS						3	3	5.5	4.3-13.4	SL		1.0										
		ETROPUS MICROSTOMUS	1	1	8.4		SL	2	2	5.5	5.7- 6.0	SL		1.0										
		PARALICHTHYS DENTATIS	8	8	4.5	2.7- 7.3	SL	105	2	2	4.6	4.4- 4.8	SL	9										
		SCOPHTHALMUS AQUOSUS	5	5	2.6	2.5- 3.2	SL							3.1										
														1.7										
C 6	12 11		SAMPLING DEPTH 0-15M										SAMPLING DEPTH 18-33M											
		CERATOSCOPELUS MADEIRENSIS	3	3	7.9	7.6- 8.3	SL		1	1	9.0		SL		1.2									
		UROPHYCIS SP.	31	24	5.9	4.0- 8.1	NL		20	16	4.6	1.7- 7.1	NL		16.0									
		MERLUCCIIUS BILINEARIS	6	6	15.2	5.7-24.6	NL	8	5	9	7.0	2.5-17.9	NL	2	4.8									
		PEPRILUS TRIACANTHUS	1	1	23.2		SL		1	1	18.3		SL		0.6									
		CITHARICHTHYS ARCTIFRONS	32	32	8.0	6.1-10.0	SL		29	29	8.4	5.6-14.6	SL		19.3									
		PARALICHTHYS DENTATIS						10						1	0.0									
		SCOPHTHALMUS AQUOSUS	1												0.3									
		SYACIUM PAPILLOSUM							1	1	6.6		SL		0.3									
		ADDITIONAL LARVAE CAUGHT	SYNGNATHICAE																					
			GOBIIDAE																					
F 1	12 11		SAMPLING DEPTH 0- 6M																					
		BREVORTIA TYFANNUS	1	1	15.0		TL							0.1										
		ADDITIONAL LARVAE CAUGHT	SYNGNATHICAE																					
H 2	12 11		SAMPLING DEPTH 0- 6M																					
		UROPHYCIS SP.	2	1	4.3		NL							0.2										
		SCOPHTHALMUS AQUOSUS	1	1	4.7		SL							0.1										
F 3	12 11		SAMPLING DEPTH 0- 6M																					
		BREVORTIA TYFANNUS	1	1	5.7		TL							0.1										
		UROPHYCIS SP.	5	4	4.8	3.2- 6.7	NL							0.6										
		PARALICHTHYS DENTATIS						1						0.0										
		SCOPHTHALMUS AQUOSUS	1	1	2.7		SL							0.1										
H 4	12 11		SAMPLING DEPTH 0-15M																					
		BREVORTIA TYFANNUS	2	2	13.7	13.5-14.0	TL							0.6										
		UROPHYCIS SP.	16	15	6.0	3.5-10.7	NL							4.8										
		PRIONOTUS CARLINUS	2	2	6.1	5.5- 6.7	SL							0.6										
		CITHARICHTHYS ARCTIFRONS	3	3	10.6	8.7-11.6	SL							0.9										
		ETROPUS MICROSTOMUS	18	18	8.8	5.7-11.6	SL							5.5										
		PARALICHTHYS DENTATIS	3	3	6.3	5.1- 7.1	SL	11						0.9										
H 5	12 11		SAMPLING DEPTH 0-15M										SAMPLING DEPTH 18-33M											
		BREVORTIA TYFANNUS							2	2	5.3	5.0- 5.7	TL		0.7									
		UROPHYCIS SP.	127	28	5.4	2.2- 9.8	NL		8	6	5.0	3.1- 7.6	NL	42.3										
		MERLUCCIIUS BILINEARIS	2	2	6.8	6.6- 7.0	NL	0	1	1	7.1		NL	0	0.9									
		CENTROPOMISTIS STRIATA	1	1	7.5		SL							0.3										
		PRIONOTUS CARLINUS	2	2	6.1	5.3- 7.0	SL							0.7										
		CITHARICHTHYS ARCTIFRONS	3	3	8.7	6.3-12.0	SL		7	7	8.8	6.3-12.6	SL		3.2									
		ETROPUS MICROSTOMUS	9	9	6.3	4.3- 8.1	SL							3.0										
		PARALICHTHYS DENTATIS	15	15	5.2	3.2- 7.5	SL	34	1	1	4.4		SL	21	5.0									
		SCOPHTHALMUS AQUOSUS	2	2	4.8	4.4- 5.2	SL							0.7										
F 6	12 11		SAMPLING DEPTH 0-15M										SAMPLING DEPTH 18-33M											
		UROPHYCIS SP.	18	17	3.2	1.5- 4.9	NL		25	21	3.2	1.5- 7.7	NL		13.7									
		MERLUCCIIUS BILINEARIS						1	3	3	4.7	3.9- 5.2	NL	3	1.0									
		CITHARICHTHYS ARCTIFRONS	1	1	5.1		SL		6	6	5.7	4.7- 6.6	SL		2.3									
		PARALICHTHYS DENTATIS	2	2	4.9	4.9- 5.0	SL	0	1	1	2.9		SL	0	0.9									
		SCOPHTHALMUS AQUOSUS							1	1	3.1		SL		0.3									
		ADDITIONAL LARVAE CAUGHT	GOBIIDAE																					

TABLE 3. (continued)

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CRUISE DATE 1961-1966 STA. NO. SPECIES ANALYZED	***** LARVAE *****					***** LARVAE *****					2 NO. PER 10M EGGS
	NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS	NUMBER	LENGTHS (MM)	NO.	MEAS.	EGGS	
F 7 12 11											
PREVORTIA TYRANNUS	1	19.0	TL								0.3
GERATOSCOFELUS MADEIRENSIS	2	2 7.7	7.1-8.4 SL			2	2 9.0	7.9-10.2 SL			1.3
UROPHYCIS SP.	1	1 1.6	NL			29	24 3.2	1.3-5.1 NL			10.0
MERLUCCIIUS BILINEARIS					5	4	4 5.6	2.4-10.4 NL	5		1.3
PEROPHILUS TRIACANTHUS	1	1 29.2	SL								0.3
CITHARICHTHYS ARCTIFRONS						6	6 6.2	3.9-10.9 SL			2.0
ADDITIONAL LARVAE CAUGHT	CONGRUOIDE SYNOBRONTIDAE					GOBIIDAE					
J 1 12 11											
MICROPOGON UNICULATUS	1	1 10.9	SL								0.1
PARALICHTHYS DENTATUS	2	2 10.8	10.7-10.9 SL	0							0.2
ADDITIONAL LARVAE CAUGHT	GOBIIDAE										C.C.
J 2 13 11											
PREVORTIA TYRANNUS	1	1 20.5	TL								0.1
PRIONOTUS CAROLINUS	1	1 16.0	SL								0.1
ADDITIONAL LARVAE CAUGHT	GOBIIDAE										
J 3 13 11											
PREVORTIA TYRANNUS	1	1 10.6	TL								0.1
ADDITIONAL LARVAE CAUGHT	GOBIIDAE										
J 4 14 11											
PREVORTIA TYRANNUS	6	6 9.2	7.4-12.5 TL								1.8
UROPHYCIS SP.	12	12 4.5	2.2-8.7 NL								3.6
CITHARICHTHYS ARCTIFRONS	1	1 10.0	SL								0.3
ETREPIUS MICROSTOMUS	2	2 8.8	7.9-9.7 SL								0.6
PARALICHTHYS DENTATUS	6	6 6.2	3.7-11.4 SL	17							1.8
SCOPHTHALMUS AQUOSUS	6	6 3.4	2.7-4.0 SL								1.8
J 5 14 11											
UROPHYCIS SP.	25	23 11.7	3.0-27.5 NL								7.6
MERLUCCIIUS BILINEARIS	1	1 6.7	NL	0							0.3
CITHARICHTHYS ARCTIFRONS	1	1 10.6	SL								0.3
ETREPIUS MICROSTOMUS	7	7 7.6	6.1-8.7 SL								2.1
PARALICHTHYS DENTATUS	2	2 7.1	5.2-9.1 SL	2							0.6
J 6 14 11											
GERATOSCOFELUS MADEIRENSIS											
UROPHYCIS SP.	8	8 4.2	2.2-6.7 NL			1	1 7.9	SL			0.2
MERLUCCIIUS BILINEARIS	1	1 7.6	NL	0		31	25 5.4	2.8-5.1 NL			7.5
CITHARICHTHYS ARCTIFRONS	8	8 6.6	5.9-8.7 SL			2	2 6.2	7.6-8.8 NL	0		0.6
PARALICHTHYS DENTATUS	2	2 6.5	6.4-7.5 SL	25		27	27 7.2	5.7-10.0 SL			6.8
ADDITIONAL LARVAE CAUGHT						1	1 7.7	SL	17		0.8
J 7 14 11											
UROPHYCIS SP.											
MERLUCCIIUS BILINEARIS						9	5 2.7	1.4-4.0 NL			3.0
CITHARICHTHYS ARCTIFRONS					0	3	3 4.6	3.2-6.3 NL	0		1.0
PARALICHTHYS DENTATUS						1	1 6.4	SL			0.3
SCOPHTHALMUS AQUOSUS					0	1	1 3.7	SL	2		0.3
ADDITIONAL LARVAE CAUGHT	1					1	1 4.5	SL			0.6
ADDITIONAL LARVAE CAUGHT						LOPHIIFORMES					
K 1 19 11											
PREVORTIA TYRANNUS	17	17 15.1	4.4-22.0 TL								2.1
UROPHYCIS SP.	1	1 4.9	NL								0.1
MERLUCCIIUS BILINEARIS	1	1 3.1	NL	0							0.1
PARALICHTHYS DENTATUS				1							0.0
SCOPHTHALMUS AQUOSUS	7	7 2.9	2.4-3.5 SL								0.8
K 2 19 11											
PREVORTIA TYRANNUS	1	1 12.5	TL								0.3
UROPHYCIS SP.	1	1 1.6	NL								0.3
PARALICHTHYS DENTATUS	2	2 4.5	3.5-5.6 SL	18							0.6
SCOPHTHALMUS AQUOSUS	28	26 3.0	2.2-5.8 SL								8.5
K 3 19 11											
PREVORTIA TYRANNUS	1	1 6.0	TL								0.3
UROPHYCIS SP.	3	3 3.7	3.4-4.1 NL								0.9
ETREPIUS MICROSTOMUS	2	2 8.7	7.1-10.3 SL								0.6
PARALICHTHYS DENTATUS	12	12 4.0	2.6-5.5 SL	63							3.6
SCOPHTHALMUS AQUOSUS	2	2 3.8	2.3-5.2 SL								0.6
ADDITIONAL LARVAE CAUGHT	GOBIIDAE										

CRUISE DATE		***** LARVAE *****					***** LARVAE *****						
STA.	D M	SPECIES ANALYZED		NUMBER	LENGTHS (MM)	NO.	NUMBER	LENGTHS (MM)	NO.	NO. PER 10M			
		TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	L/F/V/A/E	10M
K 4	18 11	SAMPLING DEPTH	C-15M				SAMPLING DEPTH	18-24M					
		BREVOORTIA TYFANNUS					2	11.5	10.6-12.5	TL		0.3	
		ANCHOA HEPSETUS	3	3	18.8	16.0-21.0	30	30	18.8	10.6-25.0	TL	5.8	
		UROPHYCIS SP.	11	8	5.6	3.3-12.3	37	26	7.6	1.7-15.8	NL	9.4	
		CITHARICHTHYS ARCTIFRONS	3	3	7.3	6.1- 8.3	4	4	8.0	6.1- 8.5	SL	1.6	
		ETREPIUS MICROSTOMUS	5	5	9.5	8.7-11.3	16	16	8.8	6.0-11.6	SL	4.1	
		PARALICHTHYS DENTATUS	1	1	8.2							0.3	0.0
		ADDITIONAL LARVAE CAUGHT					GOBIIIDAE						
.....													
K 5	18 11	SAMPLING DEPTH	C-15M				SAMPLING DEPTH	18-24M					
		BREVOORTIA TYFANNUS	1	1	13.1							0.3	
		ANCHOA HEPSETUS	3	3	14.0	12.5-16.0				TL		1.1	
		UROPHYCIS SP.	10	5	3.9	2.9- 5.2	17	16	5.2	3.9- 7.1	NL	5.8	
		PRIONOTUS CARLINIUS					1	1	15.4		SL	0.2	
		CITHARICHTHYS ARCTIFRONS	11	11	9.0	5.3-13.9	23	23	8.0	5.3-12.7	SL	7.1	
		ETREPIUS MICROSTOMUS	3	3	8.8	5.7-12.0	9	9	8.0	6.1-11.9	SL	2.4	
		PARALICHTHYS DENTATUS	2	2	5.0	4.6- 5.4	3	3	6.7	6.4- 7.3	SL	1.1	0.3
.....													
K 6	17 11	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M					
		UROPHYCIS SP.	15	12	3.3	2.0- 4.8	15	13	2.7	1.6- 4.2	NL	5.5	
		MERLUCCIIUS BILINEARIS									4	0.0	5.2
		PARALICHTHYS DENTATUS									16	0.0	12.2
		ADDITIONAL LARVAE CAUGHT					GOBIIIDAE						
		UNIDENTIFIED					UNIDENTIFIED						
.....													
K 7	17 11	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M					
		UROPHYCIS SP.					8	7	2.6	3.0- 4.7	NL	2.7	
		MERLUCCIIUS BILINEARIS									2	0.0	0.7
		PEPRILUS TRIACANTHUS	5	5	24.1	13.1-32.1						1.7	
		PARALICHTHYS DENTATUS									11	0.0	5.1
		SCORPHTHALMUS AQUOSUS					1	1	3.2			0.3	
		ADDITIONAL LARVAE CAUGHT					UNIDENTIFIED						
.....													
L 1	17 11	SAMPLING DEPTH	0- 6M										
		BREVOORTIA TYFANNUS	3	3	10.5	10.2-11.9						0.4	
		UROPHYCIS SP.	6	7	9.2	7.2-15.2						0.7	
		PARALICHTHYS DENTATUS	2	2	3.3	3.2- 3.4						0.2	2.0
		SCORPHTHALMUS AQUOSUS	4	4	2.9	2.6- 3.1						0.5	
.....													
L 2	17 11	SAMPLING DEPTH	C- 6M										
		BREVOORTIA TYFANNUS	2	2	13.7	10.5-17.0						0.2	
		ANCHOA HEPSETUS	1	1	25.0							0.1	
		UROPHYCIS SP.	6	5	7.6	4.0-11.3						0.7	
		PARALICHTHYS DENTATUS	7	7	3.6	3.1- 5.0						0.8	37.3
		ADDITIONAL LARVAE CAUGHT					UNIDENTIFIED						
.....													
L 3	17 11	SAMPLING DEPTH	C-15M				SAMPLING DEPTH	18-24M					
		BREVOORTIA TYFANNUS					1	1	11.5		TL	0.2	
		UROPHYCIS SP.	26	23	7.6	3.4-10.5	8	7	3.3	2.4- 6.7	NL	9.3	
		MICROPOGON UNICULATUS					1	1	4.0		SL	0.2	
		CITHARICHTHYS ARCTIFRONS	1	1	5.1		2	2	5.7	4.7- 6.7	SL	0.6	
		ETREPIUS MICROSTOMUS	2	2	8.0	7.9- 8.1	2	2	7.2	6.3- 8.1	SL	0.9	
		PARALICHTHYS DENTATUS	4	4	4.3	3.7- 5.0	2	2	4.3	3.7- 5.0	SL	1.6	17.7
.....													
L 4	17 11	SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M					
		GRATO SCOPELUS MADEIRENSIS	1	1	5.8							0.3	
		UROPHYCIS SP.	39	31	4.8	1.8-16.0	14	11	6.2	4.4- 7.9	NL	16.4	
		PEPRILUS TRIACANTHUS	1	1	20.7							0.3	
		CITHARICHTHYS ARCTIFRONS	16	16	6.9	5.7- 8.6	12	12	8.2	6.1-14.0	SL	8.8	
		ETREPIUS MICROSTOMUS	1	1	9.3		1	1	7.3		SL	0.6	
		PARALICHTHYS DENTATUS	1	1	4.4		2	2	6.5	6.2- 6.5	SL	1.0	1.7
		ADDITIONAL LARVAE CAUGHT					GOBIIIDAE						
.....													
L 5	17 11	SAMPLING DEPTH	C-15M				SAMPLING DEPTH	18-33M					
		UROPHYCIS SP.	4	3	2.6	1.9- 3.4	5	5	3.1	2.6- 3.8	NL	2.9	
		MERLUCCIIUS BILINEARIS					1	1	4.3		NL	1	0.3
		PARALICHTHYS DENTATUS									6	0.0	4.4
		SCORPHTHALMUS AQUOSUS					1	1	4.1		SL	0.3	
		ADDITIONAL LARVAE CAUGHT					GOBIIIDAE						
.....													
M 1	16 11	SAMPLING DEPTH	C- 6M										
		BREVOORTIA TYFANNUS	43	43	9.7	6.6-14.0						5.2	
		ANCHOA HEPSETUS	2	2	20.0	15.5-24.5						0.2	
		PARALICHTHYS DENTATUS	11	11	32.5	30.5-36.5						1.3	
		UROPHYCIS SP.	5	4	8.4	5.3-14.4						0.6	
		PARALICHTHYS DENTATUS										0.0	2.0
.....													

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[illegible]

TABLE 3. (continued)

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CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2	
C6614 1966		NUMBER					NUMBER					NO. PER 10M	
STA. 04 SPECIES ANALYZED		TOTAL MEAS. MEAN RANGE MEAS. EGGS					TOTAL MEAS. MEAN RANGE MEAS. EGGS					LAFVFE	
M 5 16 11		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-23M						
EUCYS SAURUS		1	1	29.3		NL							0.3
CALLECHELYS PERRYAE		3	3	35.2	23.8-42.5	NL	2	2	40.8	38.4-42.3	NL		1.6
MYRCPHIS PUNCTATUS		3	3	35.2	23.8-42.5	TL	2	2	40.9	38.4-43.5	TL		1.6
ANCHOA HEPSETUS		1	1	10.0		TL							0.3
ENGRAULIS EURYSTOLE		30	20	8.2	3.4-20.5	TL	10	10	5.7	6.3-16.9	TL		12.3
BENTHOSEMA GLACIALE		1	1	6.4		SL							0.3
BENTHOSEMA SUBRITALE		1	1	4.9		SL	1	1	7.7		SL		0.6
CEPATOSCOPELUS MANDERENSIS							1	1	6.2		SL		0.3
CEPATOSCOPELUS HAMMINGI		2	2	3.8	3.3- 4.3	SL	2	2	4.1	3.9- 4.4	SL		1.3
DIAPHUS SP.		4	3	4.7	4.4- 4.9	SL	4	4	5.2	4.4- 6.1	SL		2.5
HYGROPHUM REINHARDTI							1	1	5.8		SL		0.3
HYGROPHUM TANNINGI							2	2	5.2	4.7- 5.7	SL		0.7
LAMEANYCTUS ALATUS OR PHOTONYCTUS							2	2	7.7	4.5-11.0	SL		0.7
LAMEANYCTUS CLPRINUS							1	1	6.8		SL		0.3
LEPIDOPHANES SP.		1	1	4.0		SL							0.3
URCHYCHIS SP.		45	28	2.2	1.7- 3.5	NL	89	60	2.1	1.6- 3.6	NL		43.2
HEMANTHUS VIVANUS		2	1	4.7		SL	5	5	4.2	3.6- 5.0	SL		2.3
LEICSTOMUS XANTHURUS							2	2	3.5	3.4- 3.6	SL		0.7
MICROPOGON UNULATUS		9	9	4.5	3.6- 7.1	SL	28	28	3.5	2.3- 6.1	SL		12.0
PRIONOTUS CAROLINUS		4	4	4.5	3.3- 7.0	SL	5	5	4.6	2.8- 7.0	SL		2.9
RETHUS OCELLATUS		25	22	5.2	2.9- 10.7	SL	55	25	5.4	2.8- 5.7	SL		25.8
CITHARICHTHYS ARCTIFRONS							1	1	13.1		SL		0.3
CYCLOPSETTA FIMBRATA		1	1	4.6		SL	1	1	6.4		SL		0.6
ETREPOS MICROSTOMUS		14	14	3.6	2.6- 4.9	SL	10	10	4.2	3.1- 5.7	SL		7.5
PARALICHTHYS CENTATIS		2	2	3.1	3.1- 3.2	SL	2	2	3.5	3.2- 3.8	SL	0	1.3
SYATIUM PAPILLOSUM		6	6	5.9	3.2- 11.8	SL	7	7	5.7	4.2- 11.5	SL		4.1
SYMPHYRUS SP.		19	17	4.5	2.9- 7.9	SL	16	14	4.8	2.8- 5.2	SL		11.0
ADDITIONAL LARVAE CAUGHT		MORINGULIACE					MURAENIDAE						
		CYCLOTHONE SP.					CYCLOTHONE SP.						
		SYNOBONTIDAE					STOMIATIDAE						
		PARALEPIDICAE					SYNOBONTIDAE						
		CPHIDIIDAE					PARALEPIDICAE						
		SERRANIDAE					BREGMACERCTICAE						
		APOGONIDAE					OPHIOTIDAE						
		CARANGIDAE					SYNGNATHIDAE						
		LABRIDAE OR SCARIDAE					SERRANIDAE						
		SPHYRAENIDAE					APOGONIDAE						
		CALLIONYMIDAE					CARANGIDAE						
		GOBIIDAE					SPARIDAE						
		SCORPAENIDAE					LABRIDAE OR SCARIDAE						
		UNIDENTIFIED					MUGILIDAE						
							SPHYRAENIDAE						
							CALLIONYMIDAE						
							GOBIIDAE						
							SCORPAENIDAE						
							TRIGLIOAE						
							BALISTIDAE						
							UNIDENTIFIED						
.....													
N 1 16 11		SAMPLING DEPTH 0-6M											
BREVORTIA TYRANNUS		1	1	10.7		TL							0.1
ANCHOA HEPSETUS		3	3	19.2	18.2-20.5	TL							0.4
ENGRAULIS EURYSTOLE		3	3	34.0	32.2-37.1	TL							0.4
URCHYCHIS SP.		2	2	2.2	1.5- 3.0	NL							0.2
MICROPOGON UNULATUS		10	10	3.6	3.0- 4.3	SL							1.2
PARALICHTHYS CENTATIS		3	3	5.2	3.3- 6.7	SL	0						0.4
ADDITIONAL LARVAE CAUGHT		CALLIONYMIDAE											
		UNIDENTIFIED											
.....													
N 2 16 11		SAMPLING DEPTH 0-15M											
BREVORTIA TYRANNUS		14	14	9.0	4.3- 11.4	TL							4.2
URCHYCHIS SP.		52	26	4.0	2.7- 9.1	NL							15.8
LEICSTOMUS XANTHURUS		3	3	4.6	4.6- 4.7	SL							0.9
MICROPOGON UNULATUS		87	86	4.8	3.2- 8.3	SL							26.4
PRIONOTUS CAROLINUS		5	5	5.5	4.8- 6.4	SL							1.5
RETHUS OCELLATUS		1	1	3.7		SL							0.3
CITHARICHTHYS ARCTIFRONS		1	1	10.0		SL							0.3
ETREPOS MICROSTOMUS		10	10	5.2	3.4- 8.4	SL							3.0
PARALICHTHYS CENTATIS		1	1	3.7		SL	25						0.3
SYMPHYRUS SP.		1	1	3.8		SL							0.3
ADDITIONAL LARVAE CAUGHT		CPHIDIIDAE											
		CARANGIDAE											
		CALLIONYMIDAE											
		TRIGLIOAE											
		UNIDENTIFIED											

TABLE 3. (continued)

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CRUISE DATE	***** LARVAE *****	***** LARVAE *****	2
REF ID 1966	NUMBER	LENGTHS (MM)	NO.
STA. NO. SPECIES ANALYZED	TOTAL MEAS.	MEAN RANGE MEAS.	EGGS
N 3 16 11	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 18-24M	LARVAE PER 10M EGGS
CALIECHELYS PERRYAE		1 1 57.5	NL 0.2
MYROPHIS PUNCTATUS		1 1 57.5	TL 0.2
OPHICHTHUS MELANODORUS		1 1 52.0	TL 0.2
OPHICHTHUS OCELLATUS	1 1 52.3	1 1 44.0	TL 0.5
OPHICHTHUS SP.		1 1 94.0	TL 0.2
BREVIORTIA TYRANNUS	3 3 7.2		5.1-11.1 TL 1.0
ANCHOA MIPSETUS	4 4 5.4		3.0- 9.3 TL 1.3
CERATOSCOPELUS MADERENSIS		1 1 8.9	SL 0.2
UROPHYCIS SP.	29 22 3.8	6 5 2.8	1.7- 3.4 NL 9.9
CENTROPOMUS STRIATA		2 2 10.3	7.6-13.0 SL 0.3
LEICSTOMUS XANTHUS	3 3 4.1	6 6 3.4	2.5- 5.1 SL 1.9
MICROPOGON UNDULATUS	53 51 4.0	45 45 3.5	2.3- 6.3 SL 24.2
PRIONOTUS CARLINUS		8 8 5.2	4.7- 5.7 SL 1.3
BETHUS OCELLATUS	1 1 4.0		SL 0.3
CITRARICHTHYS ARCTIENS	1 1 7.6		SL 0.5
ETREPOS MICROSTOMUS	16 16 6.1	22 22 6.2	3.9- 5.7 SL 8.5
PARALICHTHYS DENTATUS	2 2 4.0		SL 0.6
SYACIUM PAPILLOSUM		2 2 6.7	8.3- 9.0 SL 0.3
SYMPHURUS SP.		2 1 5.0	SL 0.3
ADDITIONAL LARVAE CAUGHT	OPHICHTHIDAE	MORINGUIDAE	
	CYCLOTHERAE SP.	STOMIATIDAE	
	SYNOODONTIDAE	SYNOODONTIDAE	
	MYCTOPHIDAE	OPHIOTIDAE	
	CARANGIDAE	SERRANIDAE	
	CALLIONYMIDAE	GRAMMISTIDAE	
	Gobiidae	LABRIDAE OR SCARIDAE	
	SCORPAENIDAE	CALLIONYMIDAE	
	TRIGLIDAE	Gobiidae	
	TETRAODONTIDAE	STROMATEIDAE	
		UNIDENTIFIED	
.....			
N 4 16 11	SAMPLING DEPTH 0-15M	SAMPLING DEPTH 18-33M	
CALIECHELYS PERRYAE	2 1 36.5	12 12 31.6	22.7-40.5 NL 4.6
MYROPHIS PUNCTATUS	2 1 36.5	12 12 31.7	23.3-40.5 TL 4.6
ENCAULIS EURYSTOMUS	16 16 8.2	19 17 10.0	3.2-15.6 TL 11.1
BENTHOSEMA SUBORBITALE	1 1 7.3	2 2 6.6	5.1- 8.6 SL 1.0
CERATOSCOPELUS MADERENSIS		1 1 6.6	SL 0.3
CERATOSCOPELUS WAKAMINGI	2 2 5.1	1 1 4.9	SL 0.9
DIAPHUS SP.	7 7 4.6	5 5 5.2	4.4- 6.2 SL 3.8
GIGENICHTHYS ATLANTICUS		1 1 4.5	SL 0.3
HYGROPHUM PEINHARDTI		1 1 5.0	SL 0.3
LAMPANYCTUS ALATUS OR PHOTOCYTUS	1 1 3.9		SL 0.3
LAMPANYCTUS CUPRINUS	1 1 8.5		SL 0.3
LAMPADENA SP.	1 1 9.8		SL 0.3
UROPHYCIS SP.	9 9 3.3	3 3 2.5	1.7- 3.0 NL 3.7
HEMANTHIS VIVANUS		1 1 4.3	SL 0.3
LEICSTOMUS XANTHUS	2 2 3.5		3.4- 3.6 SL 0.7
MICROPOGON UNDULATUS	8 8 3.8	9 9 2.7	2.7- 4.5 SL 5.4
PRIONOTUS CARLINUS	8 8 4.9	6 6 4.6	3.7- 5.8 SL 4.4
BETHUS OCELLATUS	45 25 4.7	52 25 5.4	2.3-11.5 SL 30.8
CYCLOPSSETTA FIMBRIATA	1 1 5.4		SL 0.3
ETREPOS MICROSTOMUS	15 15 4.0	24 24 4.0	2.7- 5.1 SL 12.5
SYACIUM PAPILLOSUM	13 13 5.9	12 12 6.5	3.4-12.7 SL 7.9
SYMPHURUS SP.	8 6 5.2	4 4 6.0	4.1-10.2 SL 3.7
ADDITIONAL LARVAE CAUGHT	STEMIATIDAE	MORINGUIDAE	
	SYNOODONTIDAE	MURAENIDAE	
	LOPHIIFIFORMES	STOMIATIDAE	
	OPHIOTIDAE	SYNOODONTIDAE	
	SERRANIDAE	CHLOROPHTHALMIDAE	
	APOGONIDAE	PARALEPIDIDAE	
	CARANGIDAE	LOPHIIFORMES	
	SPARIDAE	BREGMACERCTIDAE	
	LABRIDAE OR SCARIDAE	OPHIOTIDAE	
	MUGILIDAE	SERRANIDAE	
	URANOSCOPIDAE	PRIACANTHIDAE	
	BLENNIIDAE	APOGONIDAE	
	CALLIONYMIDAE	CARANGIDAE	
	Gobiidae	LABRIDAE OR SCARIDAE	
	TRIGLIDAE	BLENNIIDAE	
	UNIDENTIFIED	CALLIONYMIDAE	
		Gobiidae	
		ACANTHURIDAE	
		SCORPAENIDAE	
		TRIGLIDAE	
		UNIDENTIFIED	

TABLE 3. (continued)

CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2	
D6614 1966		NUMBER	LENGTHS (MM)		NO.		NUMBER	LENGTHS (MM)		NO.			
STA.	04	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS	NO. PER 100	
SPECIES ANALYZED		SAMPLING DEPTH	0-15M				SAMPLING DEPTH	18-33M				EGGS	
N 5	16 11						3	3	23.6	18.5-26.5	NL	1.0	
EUCYS SAURUS							1	1	62.6		NL	0.3	
CALLECHELYS PERRYAE							1	1	62.6		TL	0.3	
MYRCPHIS PUNCTATUS		3	3	7.8	7.2-8.3	TL	12	11	P.C	5.1-10.9	TL	4.9	
EAGPAULIS EURYSTOLE		1	1	7.1		SL	1	1	7.5		SL	0.6	
CERATOSCOPELUS MAJERENSIS							4	4	4.4	3.9-4.7	SL	1.3	
CERATOSCOPELUS WAKMINCI		6	6	6.2	4.4-10.3	SL	4	4	4.6	4.0-5.2	SL	3.1	
DIAPHUS SP.							1	1	5.6		SL	0.3	
HYGCPHUM BENOITI							1	1	4.5		SL	0.3	
HYGCPHUM BENOITI OR HYGOMI							1	1	4.1		SL	0.3	
LAMEFANYCTUS ALATUS OR PHOTONDUS		5	5	2.9	1.9-4.5	NL	6	6	2.6	1.6-3.5	NL	3.5	
UFORHYCIS SP.		1	1	4.5		SL	3	3	4.2	4.0-4.5	SL	1.3	
HEMANTHIAE VIVANUS		7	7	2.9	2.2-3.4	SL	7	7	2.8	2.3-3.1	SL	4.4	
LEICSTOMUS XANTHURUS		23	23	4.0	2.5-8.8	SL						7.7	
MICROPPOGON UNULATUS		1	1	4.5		SL	34	34	3.7	2.5-6.7	SL	11.6	
PRIONOTUS CARLINIUS		33	27	5.2	2.2-13.2	SL	33	31	4.7	2.3-8.7	SL	20.9	
ACTHUS OCELLATUS		16	16	3.6	2.7-5.1	SL	26	26	4.0	2.7-7.9	SL	13.5	
ETRCPUS MICROSTOMIUS		1	1	4.2		SL						0.3	
SCOPHTHALMUS AQUINUS		3	3	5.0	4.3-5.4	SL	8	8	5.2	3.2-12.2	SL	3.6	
SYACIUM PAPILLOSUM		8	8	4.4	3.2-7.2	SL	6	6	4.7	3.3-5.6	SL	4.4	
SYMPHURUS SP.													
ADDITIONAL LARVAE CAUGHT		CONGRICAE					MORINGUIDAE						
		OPHICHTHIDAE					CONGRICAE						
		SYNOBONTICAE					STOMIATIDAE						
		PARALEPITICAE					SYNOBONTICAE						
		BREGMACEROTIDAE					CHLOROPHTHALMICAE						
		OPHIDIIDAE					PARALEPIDIDAE						
		SERRANIDAE					BREGMACEROTICAE						
		CARANGIDAE					OPHIDIIDAE						
		POMACENTRIDAE					SERRANIDAE						
		LABRIDAE OR SCARIDAE					CARANGIDAE						
		BLENNIIDAE					SPARIDAE						
		CALLIONYMIDAE					CHAETODONTICAE						
		GOBIIDAE					POMACENTRIDAE						
		TRIGLIDAE					LABRIDAE OR SCARIDAE						
		UNIDENTIFIED					SPHYRAENICAE						
							CALLIONYMIDAE						
							GOBIIDAE						
							TRIGLIDAE						
							UNIDENTIFIED						
.....													
P 1	15 11	SAMPLING DEPTH 0-6M											
MYRCPHIS PUNCTATUS		2	2	50.7	47.0-54.5	TL						0.2	
ANCHOA HEPSETUS		3	3	7.9	4.4-9.7	TL						0.4	
MICROPPOGON UNULATUS		25	25	9.3	4.8-11.6	SL						3.0	
SYMPHURUS SP.		1	1	13.3		SL						0.1	
ADDITIONAL LARVAE CAUGHT		ANGUILLA PCSTRATA											
		SPARIDAE											
		GOBIIDAE											
		UNIDENTIFIED											
.....													
P 2	15 11	SAMPLING DEPTH 0-6M											
CALLECHELYS PERRYAE		9	9	66.1	61.5-74.5	NL						1.1	
MYRCPHIS PUNCTATUS		9	9	64.3	60.7-72.2	TL						1.1	
OPHICHTHUS OCELLATUS		1	1	75.5		TL						0.1	
ANCHOA HEPSETUS		2	2	11.6	10.1-13.1	TL						0.2	
UFORHYCIS SP.		1	1	3.6		NL						0.1	
MICROPPOGON UNULATUS		133	131	9.3	3.3-11.5	SL						16.1	
PRIONOTUS CARLINIUS		1	1	4.2		SL						0.1	
PARALICHTHYS CENTATUS		1	1	4.2		SL	0					0.1	
SCOPHTHALMUS AQUINUS		5	5	4.4	3.5-5.6	SL						0.6	
SYMPHURUS SP.		3	3	14.8	14.3-15.6	SL						0.4	
ADDITIONAL LARVAE CAUGHT		SPARIDAE											
		GOBIIDAE											
.....													
P 3	15 11	SAMPLING DEPTH 0-6M											
CALLECHELYS PERRYAE		4	4	65.9	59.5-71.0	NL						0.5	
MYRCPHIS PUNCTATUS		4	4	65.9	61.3-70.5	TL						0.5	
OPHICHTHUS OCELLATUS		1	1	70.8		TL						0.1	
ANCHOA HEPSETUS		3	3	17.1	15.5-20.1	TL						0.4	
ENGAULIS EURYSTOLE		15	15	6.5	4.0-9.3	TL						1.8	
UFORHYCIS SP.		18	17	4.8	3.1-7.0	NL						2.2	
LEICSTOMUS XANTHURUS		1	1	4.4		SL						0.1	
MICROPPOGON UNULATUS		250	247	5.1	2.9-10.1	SL						20.3	
PRIONOTUS CARLINIUS		9	9	4.5	3.5-6.5	SL						1.1	
ETRCPUS MICROSTOMIUS		2	2	7.9	4.6-11.1	SL						0.2	
PARALICHTHYS CENTATUS		4	4	3.3	2.8-3.6	SL	6					0.5	
SCOPHTHALMUS AQUINUS		3	3	2.6	2.2-3.0	SL						0.4	
ADDITIONAL LARVAE CAUGHT		OPHIDIIDAE											
		CALLIONYMIDAE											
		GOBIIDAE											
		UNIDENTIFIED											

TABLE 3. (continued)

CRUISE DATE		***** LARVAE *****					***** LARVAE *****					2	
STA.	NO.	NUMBER	LENGTHS (MM)		NO.	NUMBER	LENGTHS (MM)		NO.	NO. PER 10 ²			
P 4	15 11	TOTAL MEAS.	MEAN	RANGE	MEAS.	TOTAL MEAS.	MEAN	RANGE	MEAS.	EGGS			
SPECIES ANALYZED		SAMPLING DEPTH	0-15M			SAMPLING DEPTH	1E-24M			EGGS			
OPHIOTHECTIS OCELLATUS		1	1	48.8		TL				0.2			
ANCHORA HEPSETUS		2	2	11.2	9.3-13.1	TL				0.6			
ENGRAULIS EUPYSTOLE		3	3	12.4	9.5-15.0	TL				1.9			
CERATOSCOPELUS WAKAMINEI		1	1	3.6		SL				0.2			
HEROPHYCIS SP.		30	29	4.0	2.8- 5.4	NL				9.9			
LEICISTOMUS XANTHINUS		7	7	4.8	3.7- 5.3	SL				3.3			
MICROPYGON UNGULATUS		87	87	4.4	2.4- 7.8	SL	156	152	3.7	2.3- 8.1	SL	51.9	
PRIONOTUS CARLINUS		9	9	5.7	4.8- 6.7	SL	46	23	3.9	2.1- 5.7	SL	10.2	
BOTHUS OCELLATUS		1	1	21.5		SL					0.3		
ETROPLUS MICROSTOMUS		25	25	6.3	2.7-10.1	SL	7	7	4.2	3.1- 5.1	SL	8.8	
PARALICHTHYS CENTATUS											0.0	1.6	
SYACIUM PAPILLOSUM		1	1	6.2		SL					0.3		
SYMPHURUS SP.		2	2	12.0	10.2-13.7	SL	2	2	11.5	9.4-13.6	SL	0.9	
ADDITIONAL LARVAE CAUGHT		CYCLOTHONE SP.					CYCLOTHONE SP.						
		SYNOODONTICAE					SYNOODONTICAE						
		OPHIOTHECTIDAE					BREGMACEROTIDAE						
		SERRANICAE					OPHIOTHECTIDAE						
		APOGONICAE					LABRICA OR SCARICA						
		CARANGICAE					MUGILIDAE						
		SPARIDAE					CALLIONYMIDAE						
		LABRIDAE OR SCAPIDAE					GOBIIDAE						
		SPHYPAENICAE					TETRAODONTICAE						
		CALLIONYMICAE					UNIDENTIFIED						
		GOBIIDAE											
		GEMMYLICAE											
		TRICHLIRIDAE											
		STROMATEICAE											
		SCORPAENICAE											
		TRIGLICAE											
.....													
P 5 15 11		SAMPLING DEPTH 0-15M					SAMPLING DEPTH 18-33M						
OPHIOTHECTIDAE							1	1	47.8		TL	0.3	
CALLECHELYS PERRYAE							5	5	34.0	25.4-48.0	NL	1.7	
MYRAPHIS PUNCTATUS							5	5	34.8	26.2-47.5	TL	1.7	
OPHIOTHECTIS OCELLATUS							1	1	15.0		TL	0.3	
ENGRAULIS EUPYSTOLE		25	22	8.7	4.9-12.2	TL	15	15	9.3	4.9-14.4	TL	12.5	
BENTHOSEMA SUBORBITALE		2	2	5.5	5.6- 6.2	SL						0.7	
CERATOSCOPELUS MANUENSIS		1	1	9.7		SL						0.3	
DIAPHUS SP.		1	1	6.2		SL	1	1	4.8		SL	0.6	
LAMELANYCTES ALATUS OR PHOTENOTUS		1	1	4.9		SL						0.3	
NETOSCOPELUS SP.							1	1	4.7		SL	0.3	
HEROPHYCIS SP.		17	15	3.1	1.8- 4.8	NL	6	5	3.0	2.3- 4.1	NL	7.1	
HEMANTHIS VIVANUS		7	7	3.6	2.8- 4.7	SL	2	2	4.5	4.8- 5.1	SL	2.8	
LEICISTOMUS XANTHINUS		9	9	4.8	4.4- 6.1	SL	1	1	4.7		SL	3.0	
MICROPYGON UNGULATUS		26	25	4.6	2.9- 6.4	SL	25	25	4.7	3.1- 7.5	SL	16.1	
PRIONOTUS CARLINUS		37	37	4.3	2.8- 8.1	SL	44	21	3.6	2.7- 5.3	SL	25.8	
BOTHUS OCELLATUS		41	25	6.0	3.7-10.3	SL	74	25	5.3	2.7-11.1	SL	37.0	
CYCLOPSETTA FIMBRIATA		1	1	8.4		SL						0.3	
ETROPLUS MICROSTOMUS		46	25	5.1	3.3-11.4	SL	70	25	4.2	3.0- 5.7	SL	37.1	
SYACIUM PAPILLOSUM		7	6	6.9	3.1-11.3	SL	11	10	8.2	3.4-13.7	SL	5.8	
SYMPHURUS SP.		5	4	4.6	3.7- 6.8	SL	21	18	5.6	3.2-14.2	SL	8.5	
ADDITIONAL LARVAE CAUGHT		MORINGUIDAE					MORINGUIDAE						
		CYCLOTHONE SP.					SYNOODONTICAE						
		SYNOODONTICAE					PARALEPTIDICAE						
		PARALEPTIDICAE					LOPHIIFORMES						
		MYCTOPHICAE					BREGMACEROTIDAE						
		BREGMACEROTIDAE					OPHIOTHECTIDAE						
		OPHIOTHECTIDAE					FISTULARIIDAE						
		SERRANICAE					SERRANIDAE						
		CARANGICAE					APOGONICAE						
		SPARIDAE					CARANGIDAE						
		LABRIDAE OR SCAPIDAE					PCMACENTRIDAE						
		MUGILICAE					LABRIDAE OR SCARICA						
		URANOSCOPICAE					BLENNIICAE						
		BLENNIICAE					CALLIONYMICAE						
		CALLIONYMICAE					GOBIIDAE						
		GOBIIDAE					TRIGLICAE						
		ACANTHURICAE					UNIDENTIFIED						
		SCORPAENICAE											
		UNIDENTIFIED											

